

Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

Tue Dec 8 20:49:12 1998; MasPar time 2424.36 Seconds 1535.342 Million cell updates/sec .ch_nn n.a. - n.a. database search, using Smith-Waterman algorithm Run on:

Tabular output not generated.

>US-08-963-656-1 (1-1689) from US08963656.seq 1688 Description: Perfect Score: N.A. Sequence: Title:

1 AATCCTTTTCCTGGCACCTC. TTAGGAAAAGGACCGTGGAG.

Scoring table:

TABLE default Gap 6

567134 seqs, 1101898692 bases x 2 Searched:

Dbase 0; Query 0

STD :

Nmatch

Minimum Match 0% Listing first 45 summaries Post-processing:

Database:

embl55
1:em_ba 2:em_fun 3:em_htg 4:em_hum1 5:em_hum2 6:em_in
1:em_ba 8:em_ov 10:em_pat 11:em_ph 12:em_pl
13:em_ro 14:em_vi
genbank107
15:gb_ba1 16:gb_ba2 17:gb_htg 18:gb_in 19:gb_om 20:gb_ov
21:gb_pat 22:gb_ph 23:gb_pl1 24:gb_pl2 25:gb_pr1
26:gb_pr2 27:gb_ph 23:gb_pl 124:gb_pl2 25:gb_pr3
32:gb_un 33:gb_vi Database:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Mean 11.614; Variance 5.488; scale 2.116

Statistics:

SUMMARIES

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Result		Query	•		;	•	;
. NO. :	Score	Match	Match Length DB	DB :	ei ei	Description	Pred. No.
1	1686	99.9	1689	25	HSU49727	Human C-C chemokine re	0.00e+00
7	1637	97.0	1717	25	HSU51241	Human eosinophil eotax	0.00e+00
m	1183	70.1	1201	27	HSU28694	Human eosinophil CC ch	0.00e+00
4	1064	63.0	1068	56	AF026535	Homo sapiens chemokine	0.00e+00
'n	958	56.8	1068	56	CAY13775	Cercopithecus aethiops	0.00e+00
9	952	56.4	1068	56	MMY13776	Macaca mulatta CCR-3 g	0.00e+00
7	948	56.2	1068	56	AF017283	Macaca mulatta chemoki	0.00e+00
ω	9	35.5	1440	28	MMU28406	Mus musculus macrophag	0.00e+00
6	570	33.8	1185	28	MMU29677	Mus musculus chemokine	0.00e+00
10	558	33.1	1315	28	RNRPCKR3	Rattus norvegicus mRNA	0.00e+00
11	551	32.6	1080	28	AF003954	Rattus norvegicus chem	0.00e+00
12	424	25.1	1495	25	HUMCCCKR1A	Human C-C chemokine re	0.00e+00
13	424	25.1	1609	21	E13385	cDNA encoding human MI	0.00e+00

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ALIGNMENTS

, vi	Vertebrata; butheria; Primates; catarrinn; Hominidae; Homo. 1 (bases 1 to 1689) Ponath,P.D., Qin,S., Post,T.W., Wang,J., Wu,L., Gerard,N.P., Norman W. Gerard C. and Markay P. P.	3	J. Exp. Med. 183 (b), 2437-2448 (1996) 96281895 2 (bases 1 to 1689) Ponath, P.D. Direct Submission	Submitted (21-FEB-1996) Paul D. Ponath, Molecular Biology, LeukoSite, Inc., 215 First St., Cambridge, MA 02118, USA Location/Qualifiers		11689 /gene="CKR-3"	181. 1248 /gene="CKR-3" /codon_start=1 /function="G-protein coupled receptor for eotaxin, RANTES and MCP-3" /product="C-c chemokine receptor 3" /db_xref="PID:1477551" /translation="MTTSLDTVETFGTTSYYDDVGLLCEKADTRALMAGEVPPLYSLV FTVGLLGNVVVVMILIKYRRLRIMINIYLLNLAISDLLFLYTLPFWIHYVRGHNWVFG
RESULT LOCUS DEFINITION ACCESSION NID KEYWORDS SOURCE ORGANISM	REFERENCE AUTHORS	TITLE	JOURNAL MEDLINE REFERENCE AUTHORS TITLE	JOURNAL	sonrce	dene	SGD

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Bukaryotes; Metazoa; Chordata;
Bukaryotes; Eutheria; Primates; Catarrhini; Hominidae; H
1 (bases 1 to 1717)
Daugherity, B.L., Sicilianno, S.J., DeMartino, J.A., Malkowit:
Sirotina, A. and Springer, M.S.
Cloning, expression, and characterization of the human evotaxin receptor
J. Exp. Med. 183 (5), 2349-2354 (1996)
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/translation="MTYSLDYPETFGTTSYYDDYGLLCEKADTRALMAQFVPPLYSLY
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AVLAALPEFIFYETEELFETLCSALYPEDTYYSWRHFHTLRMTIFCLYLPLLVWAIC
XTGIRWLLRCPSKKKYRAIRLIFYIRAVFFIFWTPYNVAILLSSYOSILFGNDCERS
KHEDLWALTAYSHCKOMPVIYAFVGERFRKYLRHFFHRHLLMHLGRYIPFLPSE
KHERTSSYSSPSTABELSIVF"
428 c 351 g 504 t
2 (bases 1 to 1717)
Daugherty, B.L.
Direct Submission
Submitted (13-MAR-1996) Bruce L. Daugherty, Inflammation Research, Merck Research Labortories, R80M-107, P.O. Box 2000, Rahway, NJ 07065, USA
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Pred. No. 0.00e+00;
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                                                                                                                                /note="CC chemokine receptor-3; /codon_start=1
                                                                         /organism="Homo sapiens"
/db_xref="taxon:9606"
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/gene="CWKBR3"
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/gene="CMKBR3"
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Homo sapiens chemokine receptor (CCR3) mRNA,
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Submitted (07-JUN-1995) Christophe Combadiere, NIAID, National
Institutes of Health, Building 10, Room 11N111, Bethesda, MD 2
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                                                                             Human eosinophil CC chemokine receptor 3 mRNA, complete cds. U28694
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Location/Qualifiers
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Combadiere, C., Ahuja, S.K. and Murphy, P.M.
Cloning and functional expression of a human eosinophil
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Pred. No. 0.00e+00;
0; Mismatches 3; Indels 2;
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J. Biol. Chem. 271 (18), 11034 (1996)
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/db_xref="taxon:9606"
/cell_type="eosinophil"
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Best Local Similarity 99.6%;
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The rhesus macaque CCR3 chemokine receptor is a cell entry cofactor for HIV-2, but not for HIV-1 Virology 240 (2), 213-220 (1998) 98118446
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Submitted (12-JUN-1997) M. Alizon, Institut Cochin de Genetique
Moleculaire, ICGM, 22 rue Mechain, 75014 Paris, FRANCE
Location/Qualifiers
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                             GCAGTGCTAGCAGCTCTTCCTGAATTTATCTTCTATGAGACTGAAGAGTTGTTTGAAGAG
                                           CTCATGCACCTGGGCAGATACATCCCTTCCTAGTGAGAAGCTGGAAAGAACCAGC
                                                                                   ACTCTTTGCAGTGCTCTTTACCCAGAGGATACAGTATATAGCTGGAGGCATTTCCACACT
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Sol.N., Treboute,C., Gomas,E., Ferchal,F., Shacklett,B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C-C chemokine receptor-3; CCR-3 gene.
African green monkey.
Cercopithecus aethiops
Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eu
Primates; Cararrhini; Cercopithecidae; Cercopithecinae;
Cercopithecus.
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/db_xref="taxon:9534"
1. 1068
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Cercopithecus aethiops CCR-3 gene.
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/db_xref="pip:g2582566"
/tanslation="MTSLDTVEFFGTTSYDDVGLLCEKADTRALMAQFVPPLYSLV
FTVGLLGNVVVVNLLILKYRRLAIMTNIYLLNIAISDLLELYTLEFWIHYRGHNWVFG
HGMCKLLSGFYHTGLYSEIFFILLTIDRYLAIVHAVFALRARTVFFGVITSTVTWGL
AVLAALPEFFFFFFFFTCSAFTLCSAFYSEDTVSWAHFFTHRMITCLLSCYLTELVANGIC
AVTGATHFTLRGPSKKKXKATRAIFFVHAAVFFFFWATRYNVAILLSSYOSILFGRNCERS
KHLDLVMLVTEVIAXSHCCMNPVIXAFVGERFRKYLRHFFHRHLLMHLGRYIPFESE
                                      Eukaryotae: Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhin; Hominidae; Homo.

1 (bases 1 to 1068)

Yatao, L., Weiss, S., Qari, S., Rudolph, D., Hodge, T. and Lal, R.
Partial resistance to infection by syncytium-inducing primary HIV-1 in exposed uninfected individuals homozygous for CCR5 32bp deletion
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Submitted (24-SEP-1997) Retrovirus Diseases Branch, Centers
Disease Control and Prevention, 1600 Clifton Road, Atlanta,
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Pred. No. 0.00e+00;
0; Mismatches 2;
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/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="3"
/map="3p21"
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/gene="CCR3"
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Qari, S.
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al Similarity 99.8%;
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Pred. No. 0.00e+00;
0; Mismatches 55; Indels
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larity 94.9%;
Conservative
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/db_xref="PID:e1192545"
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Submitted (12-JUN-1997) M. Alizon, Institut Cochin de Genetique
Moleculaire, ICCM, 22 rue Mechain, 75014 Paris, FRANCE
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                  Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhin; Cercopithecidae; Cercopithecinae; Macaca 1 (bases 1 to 1068)
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CTGGTCGTGCTGGTGACAGAGGTGATTGCCTACTCCCACTGCTGCGTGAACCCAGTGATC
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0; Mismatches 58;
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/db_xref="taxon:9544"
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Alizon, M.
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Comparative Medicine, Johns ne, 720 Rutland Ave., Traylor

Submitted (05-AUG-1997) Division of Com Hopkins University School of Medicine, G-60, Baltimore, MD 21205, USA Location/Qualifiers

/organism="Macaca mulatta" /db_xref="taxon:9544" 1. .1068

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source

FEATURES

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CDS

/gene="CCR3" 1. .1068 /gene="CCR3"

Cercopithecinae; Macaca

Macaca mulatta
Eukaryotae; Metazoa; Chordata; Vertebrata; M
Primates; Catarrhini; Cercopithecidae; Cerco
1 (bases 1 to 1068)
Hauer, D.A., Margulies, B.J. and Clements, J.E.
Direct Submission
Submitted (05-AUG-1997) Division of Comparat

REFERENCE AUTHORS TITLE JOURNAL

SOURCE

KEYWORDS

Eutheria;

Mammalia;

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CTCATCCACCTGGGCAAATACATCCCATTCCTAGTGAGAAGCTGGAAAGAACCAGC 1020
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                                                                    1 ATGACAACCTCACTAGATACGGTTGAGACCTTTGGTCCCACATCGTACGATGATGACATG
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                                  Length 1068;
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                                  Score 948; DB 26; L
Pred. No. 0.00e+00;
0; Mismatches 60;
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KLERTSSVSPSTAEPELSIVF"
289 c 245 g
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llarity 94.4%;
Conservative
                                          Best Local Similarity
Matches 1008; Conser
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        BASE COUNT
ORIGIN
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18-SEP-1997

gene, complete cds

Macaca mulatta chemokine receptor (CCR3) AF017283 92407218

DNA

1068 bp

AF017283

DEFINITION

ACCESSION

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RESULT LOCUS

US-08-963-656-1.rge

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1 Similarity 75.9%;
886; Conservative
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protein-1 alpha receptor-like
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Direct Submission
Submitted (05-JUN-1995) Ji-Liang Gao, Lab of Host Defenses, NIAID,
National Institutes of Health, Building 10, Room 11N113, Bethesda,
MD 20892, USA
On Feb 27, 1996 this sequence version replaced gi:1199860.
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Myomorpha; Muridae;
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1 (bases 1 to 1440)
Gao,J.L. and Murphy,P.M.
Cloning and differential tissue-specific expression of three cloning and differential tissues, including the gene for a functional macrophage inflammatory protein-1 alpha receptor J. Biol. Chem. 270 (29), 17494-17501 (1995)
                                                                                                                                                                                                                                                                                            TACGCCTTTGTTGGAGAGAGAGTCCGGAAGTACCTGCGCCACTTCTTCCACAGGCACGTG
                    ATTTTTGTCATCATGCTGTGTTTTTCATTTTCTGGACACCCTACAATGTGGCTATCCTT
                                                                                                                                                                CTGTTCGTGCTGGCGACGGAGGTGATCGCCTACTCCCACTGCTGCTGAACCCAGTGATC
                                                                                                                                                                                                                                                                                                                                           CTCATGCACCTGGGCAAATACATCCCATTCCTTCTAGTGAGAAGCTGGAAAGAACCAGC
         ACTCTTTGCAGTGCTATTTACCCACAGGATACAGTATATAGCTGGAGGCATTTCCACACT
                                                         CTGAAAATGACCATCTTGTGTCTCGCTCTCCCTCTGCTCGTTATGGCCATCTGCTACACA
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Vertebrata; Eutheria; Rodentia; Sciurognathi; 1
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/clone_lib="lambda FIX 129/SvJ
/chromosome="9"
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REFERENCE
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TITLE
JOURNAL
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227. .1306
/gene="macrophage inflammatory protein-1 alpha
receptor-11ke 2 gene"
/note="mmp-1 alpha receptor like-2"
/note="MIP-1 alpha receptor like-2"
/codon_start=1
/db_xref="PID:g1203801"
/db_xref="PID:g1203801"
/translation="warnyDeiktyvibsFettpyrevewappcEkvrikeLGSWLLPPL
YSLVPIGLIGHONTVLIXYEKLQIMTNIYLENIAISDLLFLFTVPFWIHYULWNE
WGFGHYMCKNLSGFYYLALYSEIFFIILLTIDRYLAIVANFALRARTYTFATITSII
TWGLAGLAALDEFFHRESODSFGEFSCSPRPEGEEDSWKRHAALRWNIFGLALDLLV
WYICYSGIIRTLIRCPNKKHKAIRLIFVVWIVYFFIFWTPYNLVLLFSAFHSTFLETS
CEOSKHLDLAMOYTEVITHCVNNPYIYAFVGERFFKHLRLFFHRNVAVYLGKXIPF
LPGEKMERTSSVSPSTGEQEISVVF"
65 a 325 c 295 g 455 t ij 1039 379 321 439 381 499 441 559 619 561 619 621 739 799 741 859 919 979 261 501 681 801 861 921 Gaps GATACCAGAGCACTGATGCCCCAGTTTGTGCCCCCGCTGTACTCCCTGGTGTTCACTGTG 260 GITGAAAGCITIGAGACCACACCCTAIGAAIAIGAGIGGGCACCACCCTGIGAAAAAGIC AGAATCAAAGAGCTGGGGTCATGGCTCCTGCCTCCACTGTACTCCCTGGTGTTCATCATC GGCCTCCTGGGCAACATGATGGTTGTGTTGATCCTCATAAAGTACAGGAAGCTACAAATT ATGACTAATATCTACCTGTTCAACTTGGCAATTTCTGACCTGCTCTTTCTCACTGTC CCATTCTGGATTCACTATGTTCTGTGGAATGAGTGGGGGTTTTGGCCACTACATGTGCAAA AIGCIGICIGGGITITATIACCIGGCCIIGIACAGCGAGAICTITITCAICAICCIGCIG 502 CICCICICAGGGIIIIAICACACAGGCIIGIACAGGGGAGCIIIIICAIAAICCIGCIG ACAATTGACAGATACCTGGCTATCGTCCATGCTGTGTTTGCCCTTCGAGCCCGAACTGTG ACTITIGCTACTACCACCAGTATCATTACCTGGGGCCTTGCAGGACTGGCAGTTGCCT GAATTTATCTTCCATGAGTCTCAAGACAGCTTTGGAGAGTTTTCCTGCAGTCCTCGCTAT CTAGCTCTTCCTCCTCGTTATGGTTATCTGTGTACTCAGGAATCATTAAAACTCTGCTG 1; Length 1440; e 600; DB 28; Length 14 . No. 0.00e+00; Mismatches 281; Indels Score 600;

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1102 TICCGGAAGTACCIGCGCCACTICITCCACAGGCACTIGCTCATGCACCIGGGCAGATAC 1161
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                                            GTTGAAAGCTTTGAGACCACACCCTATGAATATGAGTGGGCACCACCCTGTGAAAAAGTC 148
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                                                                      GTTGAGACCTTTGGTACCACATCCTACTATGATGACGTGGGCCTGCTCTGTGAAAAAGCT
                                                                                                  AGAATCAAAGAGCTGGGGTCATGGCTCCTGCCTCCACTGTACTCCCTGGTGTTCATCATC
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  . No. 0.00e+00;
Mismatches 247;
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  Similarity 76.8%;
817; Conservative
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/do_xref="PID:91109784"
/translation="MAFNTDEIKTVVESFETTPYEYEWAPPCEKVRIKELGSWLLPPL
YSLVFIGLLGNMWVLLIKKRKLOIMTNYILFNIAJSDLEFTYPFWIHYUMNE
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TWGLAGLAADEPFIFHESQDSFGEFSCSPRYPEGEBDSWKRFHALRNNIFGLALLLU
MVCYSGIIKTLLRCPNKKHKAIRLIFYWHIVFFIFWTPILFTS
CEOSKHIEDLAAMOYTEVAAYTHCCVNPVIYAFVGERFRKHLRLFFFFFFF
LPGEKMERTSSVSPSTGEQEISVVF"
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Post, T.W., Bozic,C.R., Rothenberg,M.E., Luster,A.D., Gerard,N. and Gerard,C.
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Post.T.W. Bozic,C.R., Rothenberg,M.E., Luster,A.D. and Gerard,C. Direct Submission
Submitted (21-JUN-1995) Theodore W. Post, Pulmonary, Children's Hospital, 300 Longwood Ave, Boston, MA 02115, USA
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
                                                                                                                TTCCGGAAACACCTTCGGCTCTTTTTCCACAGAAATGTGGCAGTTTACCTGGGAAAATAT 1219
                                                                                                                                                                                                                GAGCAAGAAATCTCTGTGGTGTTTTAGTTGGGCAGAGAAAATTGTCACTTATTCCATGGA 1339
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Mus musculus chemokine G-protein-coupled receptor CCR-3 gene,
Complete cds.
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                                          GTGATTGCCTACACCCACTGCTGTGTCAACCCAGTAATCTACGCCTTTGTTGGTGAGAGG
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/organism="Mus musculus"
/strain="5v129"
/db_xref="taxon:10090"
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/translation="MASNEEELKTVVETFETTPYEYEWAPPCEKVSIRELGSWLLPPL
YSLVETVGLGOMMYVLLIKKRKCOMMINITALAISLELETYPPFWIHYVLWNE
WGFGHCWCKMLSGLYYLALYSEIFFILLTIDRYLAIVHAVLALRARTVTFATITSII
TWGLAVLAALDEFFIHESQDNFGCLSCSPRYPEGEEDSWRRPHALRNNIFGLALDLLIA
MVICYSGIIKTLLRCPNKKKHKAIQLIFVVMIVFFIFWTPYNLVLLLSAFHSTFLETS
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                                                      23-JAN-1998
                                                                                                                                                                                                                                                                                                                                  Direct Submission
Submitted (23-JaN-1998) B. Flanagan, University of Liverpool,
Department of Immunology, Duncan Building, Daulby Street,
University of Liverpool, Liverpool, Merseyside, L69 3GA, UK
On Jan 28, 1998 this sequence version replaced gi:2765319.
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Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
1 (bases 1 to 1315)
Harrington, P.M., Newton, D.J., Coleman, J.W. and Flanagan, B.F.
Unpublished
                                                                                                                                                                                                                                         Direct Submission
Submitted (27-MAY-1997) B. Flanagan, University of Liverpool
Department of Immunology, Duncan Building, Daulby Street,
University of Liverpool, Liverpool, Merseyside, L69 3GA, UK
Revised by {3}
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/db_xref="PID:e1247073"
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                              Rattus norvegicus mRNA for receptor 131400 g2814946
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/dev_stage="adult"
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                                                                                           CTCCTCTCAGGGTTTTATCACACAGGCTTGTACAGCGAGATCTTTTTCATAATCCTGCTG
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1 (bases 1 to 1080)
Jiang, Y., Salafranca, M.N., Adhikari, S., Xia, Y., Feng, L., Sonntag, M.K., deFiebre, C.M., Pennell, N.A., Streit, W.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                        CCAGAGGGCGAAGAAGACAGCTGGGAAGCGTTTCCATGCTCTAAGAATGAACATTTTTGGT
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J. Neuroimmunol. (1998) In press
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                   Jiang, Y., Salafranca, M.N., Adhikari, S., Xia, Y., Feng, L., Pennell, N.A., Streit, W.J. and Harrison, J.K.
Direct Submission
Submitted (13-MAY-1997) Pharmacology and Therapeutics, University of Florida, 1600 S.W. Archer Road, Box 100267, Gainesville, FL
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Pred. No. 0.00e+00;
                                                                                                                                                                                                            /organism="Rattus norvegicus"
/strain="Wistar"
/db_xref="taxon:10116"
                                                                                                                                     Location/Qualifiers
1. .1080
(bases 1 to 1080)
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Best Local Similarity 76.3%;
Matches 799; Conservative
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/codon_start=1
/product="C-C chemokine receptor type 1"
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/d_xxef="PID:g179985"
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FVIGLVGNILVVULVQYKRLKNMTSIYLLNIAISDLLFLFTLPFWIDYKLKDDWVFG
DAMCKILSGFYYTGLYSEIFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIIIWAL
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YTGIIKILLRRPNEKKSKAVRLIFVIMIIFFLFWTPYNLTILISVFQDFLFTHECEQS
RHLDLAVQVTEVIAYTHCCVNPVIYAFVGERFRKYLRQLFHRRVAVHLVKWLPFLSVD
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Human C-C chemokine receptor type 1 (C-C CKR-1) mRNA, complete cds
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Neote, K., DiGregorio, D., Mak, J.Y., Horuk, R. and Schall, T.J. Molecular cloning, functional expression, and signaling characteristics of a C-C chemokine receptor
Cell 72 (3), 415-425 (1993)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTATTTGGAAATGACTGTGAGCGGACGAAGCATCTGGACCTGGTCATGCTGGTGACAGAG
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                                                                                                                AGGTGCCCCAGTAAAAAAAGTACAAGGCCATCCGGCTCATTTTTTGTCATGGCGGTG
                                                                                                                                                             TTCCGGAAACACCTTCGGCTCTTTTCCACAGAAATGTGGCCAATCTACCTGAGAAATAT
                                                                       AGATGCCCCAATAAAAAAAAAACACAAGGCCATCCAGCTTATTTTGTTGTCATGATAGTC
                                                                                                                                                                                                                                                           TTTTTGGAGACCAGCTGTCAGCAGAGCATACACCTGGACCTGGCCATGCAAGTGACTGAG
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Pred. No. 0.00e+00;
0; Mismatches 271; Indels
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1. .1068
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/db_xref="taxon:9606"
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Homo sapiens
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Best Local Similarity 71.9%;
Matches 695; Conservative
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          CAAGTIGAAGGAIGACIGGGITITITGGIGAIGCCAIGIGIAAGAICCICICIGGGITITIA
                                                                                                                                                                                    GGCCATCGTCCACGCCGTGTTTGCCCTTGCGGGCACGGACCGTCACTTTTGGTGTCATCAC
                                                                                                                                                                                                                                                            CAGCATCATTTGGGCCCTGGCCATCTTGGCTTCCATGCCAGGCTTATACTTTTCCAA
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GGCCCAACTGCTGCCCCCTCTGTACTCCTTGGTATTTGTCATTGGCCTGGTTGGAAACAT
                                                                                    CCTGAACCTGGCCATTTCTGACCTGCTCTTCCTGTTCACGCTTCCCTTCTGGATCGACTA
                                                                                                                                                                         TTACACAGGCTTGTACAGCGAGATCTTTTTCATCATCCTGCTGACGATTGACAGGTACCT
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27-APR-1998

RESULT 13 LOCUS E13385 1609 bp DNA DEFINITION CDNA encoding human MIP-1 alpha /RANTES receptor.

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|2N5/10,C12N15/09,C12P21/02,C12Q1/00,(C12P21/02,C12R1:91), PC
                                                                                                                                                                                                                                                                                                                                                                                                                                    1. .1609
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115. .1182
/product='human MIP-1 alpha /RANTES receptor'
                                                                                                                                                                                                                 HONDA SUSUMU, FUJISAWA TOMOYUKI
A61K45/00, A61K45/00, A61K45/00, A61K45/00, A61K45/00,
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                                                                                                       Honda,S. and Fujisawa,T. .
PRODUCTION OF HUMAN MIP-LALPHA/PANTES RECEPTOR PROTEIN AND PATENT: JP 1997176048-A 1 08-JUL-1997;
TAKEDA CHEM ID LID
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                                                                    Mammalia;
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Pred. No. 0.00e+00;
0; Mismatches 271; Indels
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/organism="Homo sapiens"
/db_xref="taxon:9606"
a 416 c 385 g 42.
                                                                  Eukaryota; Metazoa; Chordata; Ver
Primates; Catarrhini; Hominidae;
1 (bases 1 to 1609)
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1183. .1609
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JP 1997176048-A/1
08-JUL-1997
28-DEC-1995 JP 1995342130
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topology: Linear;
hypothetical: No;
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Best Local Similarity 71.9%;
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Murphy, P.M.
Clonting and expression of the human macrophage inflammatory
protein-1.alpha..alpha., /rantes receptor
Patent: US 5552133-A,1 29-JUL-1997;
                                                                                                                     GACCCAATGGGAATTCACTCACCACACCTGCAGCCTTCACTTTCCTCACGAAAGCCTACG
                                                                                                                                                                         759 TAGCTGGAGGCATTTCCACACTCTGAGAATGACCATCTTCTGTCTCGTTCTCCCTCTGCT
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CAGCATCATCATTTGGGCCCTGGCCATCTTGGCTTCCATGCCAGGCTTATACTTTTCCAA
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Matches 695; Conservative
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AUTHORS TITLE

REFERENCE

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HUMRANTES 2156 bp mRNA PRI 25-MAY-1993
Homo sapiens macrophage inflammatory protein-1-alpha/RANTES
receptor mRNA, complete cds.
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AILASMPGIYFSKTQMFTHHTCSLHFPHSSLREWKLPQALKLNLFGLYLPLTLYMIIC
YTGIIKILLRRPNBKKSKAVRLIFVIMIIFFLFWTPYNLTILISVFQDFLFTHECEGS
RLHDLAVOYTEVIAYTHCCVNVYIYAFVGERFRKYLRQLFHRRVAVHLVKWLPFLSVD
547 c
547 c
564 g
567 t
                                                                                                                                                                                                                                                                                                                                                        /product="macrophage inflammatory protein-1-alpha"
/db_xref="PID:9292417"
/translation="METPNTTEDYDTTEFDYGDATPCQKVNERAFGAQLLPPLYSLY
                                                                        Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 2156)
Gao, J.-L., Tiffany, H.L., Kuhns, D., McDermott, D., Li, X., Francke, U. and Murphy, P.M.
G-protein activator; G-protein coupled receptor; RANTES receptor; macrophage inflammatory protein-1-alpha. Homo sapiens (library: 2 kb HL-60 neutrophil cDNA in lambda-ZAP) cDNA to mRNA.
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                                                                                                                                                                                                                                  //organism="Homo sapiens"
/db_xref="taxon:9606"
/cell_type="HL-60"
/tissue_lib="2 kb HL-60 neutrophil cDNA in lambda-ZAP"
/standard_name="macrophage inflammatory
protein-lalpha/RANTES receptor"
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641 AGAGTGGAAGCTGTTTCAGGCTCTGAAACTGAACCTCTTTGGGCTGGTATTGCCTTTGTT
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Search completed: Tue Dec 8 22:05:07 1998 Job time: 4555 secs.

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protein - protein database search, using Smith-Waterman algorithm ch_pp

Tue Dec 8 13:14:19 1998; MasPar time 11.57 Seconds 496.409 Million cell updates/sec Run on:

not generated Tabular output >US-08-963-656-2 (1-355) from USO8963656.pep 2765 1 MITSLDIVETFGTISYYDDV......LERISSVSPSTAEPELSIVF 355

Title: Description: Perfect Score: Sequence:

PAM 150 Gap 11 Scoring table:

131922 segs, 16180660 residues Searched:

Minimum Match O% Listing first 45 summaries Post-processing:

Database:

a-geneseq32
i.part1 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7
8:part8 9:part9 10:part10 11:part11 12:part12 13:part13
14:part14 15:part15 16:part16 17:part17 18:part18
19:part19 20:part20 21:part21 22:part22 23:part23
24:part24 25:part25 26:part26 27:part27 28:part28
29:part29

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Mean 34.824; Variance 168.421; scale 0.207

tistics:

SUMMARIES

2 2751 99.5 2 2751 99.5 3 2748 99.4 4 2748 99.4 5 2748 99.4 6 2710 98.0 7 2658 96.1 8 1828 66.1 10 1828 66.1 11 1720 65.2 13 1496 54.1		355 1 355 2 355 2	9/22/09 0			
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	6.1	355 2	5 W26588	88 Human MIP-1 alpha/RAN	a/RAN	8.66e-147
	6.1	355 2	4 W25751	51 Human MIP-lalpha/RANT	/RANT	8.66e-147
	2.2	355 2	4 W29179	79 Rat CC chemokine rece	rece	2.96e-137
	4.6	352 2	4 W27125	25 Macaque chemokine rec	e rec	1.17e-118
	4.1	352 2	4 W27123	23 Human chemokine recep	recep	1.63e-117
	54.1	352 2	7 W27407	_	•	1.63e-117
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٠,	4.1	371 2	9 W23834	34 Human CC chemokine re	ne re	1.33e-117
E.	3.6	352 2	0 W07602	02 Human G-protein chemo	chemo	2.27e-116
18 1438 52	2.0	360 1	4 R79166	66 Human monocyte chemoa	hemoa	2.06e-112

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Gaps

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Score 2751; DB 19; Length 355; Pred. No. 1.42e-228; 0; Mismatches 1; Indels 0

Query Match 99.5%; Best Local Similarity 99.7%; Matches 354; Conservative

.06e-11	.41e-1	.43e-10	.40e-9	.04e-8	.41e-7	2.60e-68	.51e-6	.46e-5	•	.11e-5	.87e-5	•	.35e-5	1.43e - 55	.81e-5	.43e-5	.43e-5	.43e-5	.43e-5	.90e-5	.90e-5	•	•	•	.61e-5	1.56e-49
Human monocyte chemoa	Human chemokine recep	Human monocyte chemoa	Chemokine receptor K5	Human G-protein recep	Seven transmembrane r	Human macrophage/dend	Human chemokine recep	Partial sequence of s	seven	Putative seven transm	Inactive human CCR5.	Inactive human CCR5.	Human dendritic cell	Epstein Barr virus in	a	Human IL-8 receptor f	æ	Sequence in a low aff	ž	Recombinant high affi		Interleukin 8 recepto	:	IL8-R type 1-GBP 130	Recombinant high affi	Interleukin-8 recepto
W35833	W26766	R79165	R99274	W07618	R53748	W48087	W26767	R53745	R53743	R53744	W27406	W27408	W48086	R54079	R53747	R33420	R80758	R28273	R70124	R80951	R68811	R80756	W19780	R70123	R80953	R27791
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ALIGNMENTS

RESULT 1 ID W03376 standard; Protein; 355 AA.	W03376; 15-NOV-1996 (first entry)	CC-chemokine receptor 3. CKP-3: Eos-12: inhibitor:	antiinflammatory; eosinophil.	Homo sapiens.	Key	region	•			_	25-JUL-1996.			(BGHM)	(CHIL-)	(LEUK-) LEUKOSITE INC.	Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post	Coin S;			Mammalian chemokine receptor-3 and related nucleic acids - useful	identify receptor inhibitors to treat inflammatory disease,				clone (T31334). A slightly different	was deduced from a cDNA clone (T31335	is given in W03378. Recombinant CKR-3	cells, and is useful for screening for	and inhibitors. The inhibitors can be	dispase	AC W03376; DE CC-chemokine receptor 3. CKP-3; Eos-L2; inhibitor; antisense; KW antinflammatory; eosinophil. CC-chemokine receptor 3. CKP-3; Eos-L2; inhibitor; antisense; KW antinflammatory; eosinophil. Nos antinflammatory; eosinophil. FT F F F F F F F F F F F F F F F F F F
Okine receptor 3. Okine receptor 3. Okine receptor 3; CKP-3; EOS-L lammatory; eosinophil. Piens. Location/Qualifiers 130.138 /note="amino acids 1 conserved among C-X-C receptors" 1996. 1996. 1996. 1996. 1996. 1996. 1997. 1	CC-chemokine receptor 3. CC-chemokine receptor 3; CKP-3; Eos-L2; inhibitor; antisense; antiinflammatory; eosinophil. Homo saplens. Location/Qualifiers Key Location/Qualifiers region /note="amino acids 130-138 comprise a motif conserved among C-x-C and C-C chemokine receptors" W09622371-A2. 25-U0L-1996. 19-JAN-1996; U00608. 19-JAN-1996; U00608. 19-JAN-1995; US-375199. (EGIM) BRIGHAM & WOMENS HOSPITAL. (CHIL-) CHILDRENS MEDICAL CENT. (LEUK-) LEUKOSITE INC. (GETAC CJ, Gerard NP, Mackay CR, Ponath PD, Post TW; (CHIL-) CHILDRENS MEDICAL CENT. (LEUK-) LEUKOSITE INC. (Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW; (Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW; (LEUK-) LEUKOSITE INC. (Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW; (Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW; (LEUK-) LEUKOSITE INC. (LEUK-) LEUKOSITE INC. (Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW; (CHIL-) CHILDRENS MEDICAL CENT. (LEUK-) LEUKOSITE INC. (CHIL-) CHILDRENS MEDICAL CENT. (CHIL-) CHILDRENS MEDICAL CENT. (CHIL-) CHILDRENS THILDRENS CERTAIN CANCALL CALL CALL CALL CALL CALL CALL	antiinflammatory; eosinophil. Homo sapiens. Location/Qualifiers region Anote= "anino acids 130-138 comprise a motif conserved among C-x-C and C-C chemokine receptors" 25-JUL-1996. 19-JAN-1996; U00608. 19-JAN-1996. 19-JAN-1996; U00608. 19-JAN-1996. 19-JAN-1906. 19-JAN-190	Homo sapiens. Key Igo.138 Igo.138 /note= "amino acids 130-138 comprise a motif conserved among C-x-C and C-C chemokine receptors" WO9622371-A2. 19-JAN-1996. 19-JAN-1995; US-375199. (EGIM) 19-JAN-1995; US-375199. (ACHIL-) CHILDRENS MEDICAL CENT. (LEUK-) LEUKOSITE INC. (GETAID NP. MACKAY CR., Ponath PD, Post TW; Qin S; WPI: 96-354528/35. N-FSDB; T31334. N-FSDB; T31334. N-FSDB; T31334. A novel human receptor (W03376), Gesignated Eos L2 or C-C chemokin receptor 3 (CKR-3), is involved in leukocyte migration associated with inflammation. Its sequence was deduced from a genomic DNA clone (T31334) and a consensus sequence was deduced from a CDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CKR-3 can be produced in host cells, and is useful for screening for CKR-3 ligands, promoters and inhibitors. The inhibitors can be used to treat inflammatory disease.	Key Location/Qualifiers region /Aoote= amino acids 130-138 comprise a motif conserved among C-x-c and C-C chemokine receptors areceptors among C-x-c and C-C chemokine receptors 19-137-1996. 19-13M-1995; UG-375199. 19-13M-1995; UG-375199. (BGHM) BRIGHAM & WOMENS HOSPITAL. (CHIL-) CHILDRENN MEDICAL CENT. (LEDK-) LEUKOSTIE INC. (Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW; WPI: 96-554528/35. N-PSDB; T31334. N-PSDB; TW; N-PSDB; N-PSDB; TW; N-PSDB; N-PSD	region 130138 //note= "amino acids 130-138 comprise a motif conserved among C-x-C and C-C chemokine receptors" 25-UUL-1996. 19-JAN-1995; UG-0608. 19-JAN-1995; UG-0708. 19-JAN-1995; UG-0708. 19-JAN-1995; UG-0708. 19-JAN-1995; UG-0708. (EUK-) LEUKOSITE INC. (ELUK-) LEUKOSITE INC. (Gerard CJ. Gerard NP. Mackay CR, Ponath PD, Post TW; Qin S; WPI; 96-354528/35. N-PSDB; T31334. Mammalian chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc. Claim 10; Page 110-111; 153pp; English. A novel human receptor (W0376), designated Eos L2 or C-C chemokin receptor 3 (CRR-3), its sequence was deduced from a genomic DNA clone (T31334). A novel human receptor (W03778) and a consensus sequence was deduced from a cDNA clone (T31335) and a consensus sequence is given in W0378. Recombinant CKR-3 can be produced in host and inhibitors. The inhibitors can be used to treat inflammatory disease.	Conserved among C-x-C and C-C chemokine conserved among C-x-C and C-C chemokine conserved among C-x-C and C-C chemokine receptors. 25-UUL-1996. 19-JAN-1995; UG-375199. (BGHM) BRIGHAM & WOMENS HOSPITAL. (CHIL-) CHILDRENS MEDICAL CENT. (LEGK-) LEUKOSITE INC. (GETAIC GJ, GETAIC NP, MACKAY CR, Ponath PD, Post TW; Qin S; WPI; 96-354528/35. N-PSDB; T31334, N-PSDB; T31334, Mammalian chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc. (Claim 10; Page 110-111; 153pp; English. A novel human receptor (W03376), designated Eos L2 or C-C chemokin receptor 3 (CKR-3), is involved in leukocyte migration associated with inflammation. Its sequence was deduced from a genomic DNA clone (T31334) and a consensus sequence was deduced from a CDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CKR-3 ligands, promoters and inhibitors. The inhibitors can be used to treat inflammatory disease.	conserved among C-X-C and C-C chemokine receptors. W09622371-A2. 25-UDL-1996. 19-JAN-1996; U00608. 19-JAN-1995; UG-375199. (CHIL-) CHILDRENN MEDICAL CENT. (GHIL-) CHILDRENN MEDICAL CENT. (CHIL-) CHILDRENN CENT. (CHIL-) CHILDRENN CHILDRENN CHILDRENN MEDICAL CENT. (CHIL-) CHILDRENN CHI	W09522371-A2. 25-JUL-1996. 19-JAN-1995; UG0608. 19-JAN-1995; UG-0608. 19-JAN-1995; UG-0608. 19-JAN-1995; UG-375199. (EGHM.) BRIGHAM & WOMENS HOSPITAL. (CHIL-) CLEUKOSITE INC. GEARA CJ. GETARD NP. Mackay CR, Ponath PD, Post TW; (LEUK-) LEUKOSITE INC. GETARD CJ. GETARD NP. Mackay CR, Ponath PD, Post TW; MPI: 96-354528/35. N-PSDB; T71334. Mammalian chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc. Claim 10; Page 110-111; 153pp; English. A novel human receptor (W3376), dessignated Bos L2 or C-C chemokin receptor 3 (CKR-3) Its sequence was deduced from a genomic DNA clone (T31334). A slightly different amino acid sequence (W03377) was deduced from a cDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CKR-3 can be produced in host and inhibitors. The inhibitors can be used to treat inflammatory disease.	WO9522371-A2. 25-JUL-1996. 19-JAN-1996; U00608. 19-JAN-1996; UG-1996. 19-JAN-1996; UG-1995; UG-1951. 19-JAN-1996; UG-1951. 19-JAN-1996; UG-1951. 19-JAN-1996; UG-1952. 19-JAN-1996; UG-1952. 19-JAN-1996; UG-1952. 19-JAN-1996; UG-1906. 19-JAN-1906; UG-1906; UG-1	25-JUL-1995, U00608. 19-JAN-1995, UG-375199. (CHIL.) CHILDRENN MEDICAL CENT. (Gerard CJ. Gerard NP. Mackay CR. Ponath PD. Post TW; (NPI.) 96-154528/35. N-PSDB; T31334. N-PSDB; T31334. A novel human receptor (W03376), designated Eos L2 or C-C chemokin A novel human receptor (W03376), designated Eos L2 or C-C chemokin receptor 3 (CKR-3), is involved in leukocyte migration associated with inflammation. Its sequence was deduced from a genomic DNA clone (T31334). A slightly different amino acid sequence (W03377) was deduced from a CDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CKR-3 can be produced in host and inhibitors. The inhibitors can be used to treat inflammatory disease.	19-JAN-1995; UG0608. 19-JAN-1995; UG0608. (BGHM) BRIGHAM & WOMENS HOSPITAL. (CHIL-) CILLDRENS MEDICAL CENT. (LEUK-) LEUKOSITE INC. Gerard CJ. Gerard NP. Mackay CR, Ponath PD, Post TW; Gerard CJ. Gerard NP. Mackay CR, Ponath PD, Post TW; WPI: 96-154528/35. N-PSDB; T71334. Mammalian chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. Mulli 19; Page 110-111; 153pp; English. A novel human receptor (W03376). Gestyonated Bos L2 or C-C chemokin receptor 3 (CRR-3). Its sequence was deduced from a genomic DNA clone (T31334). A slightly different amino acid sequence (W03377) was deduced from a cDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CRR-3 can be produced in host and is useful for screening for CKR-3 ligands, promoters and inhibitors. The inhibitors can be used to treat inflammatory disease.	(BGHM) BRIGHAM & WOMENS HOSPITAL. (EGHM) ERICHAM & WOMENS HOSPITAL. (LEUK-) CHILDRENS MEDICAL CENT. (LEUK-) LEUKOSITE INC. Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW; Qin S; WPI; 96-354528/35. N-PSDB; T31334. Mammalian chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc. Claim 10; Page 110-111; 153pp; English. A novel human receptor (W03376), designated Eos L2 or C-C chemokin receptor 3 (CRR-3), is involved in leukocyte migration associated with inflammation. Its sequence was deduced from a genomic DNA clone (T31334). A slightly different amino acid sequence (W03377) was deduced from a cDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CRR-3 can be produced in host cells, and is useful for screening for CKR-3 ligands, promoters and inhibitors. The inhibitors can be used to treat inflammatory disease.	(EGHM) BRIGHAM & WOMENS HOSPITAL. (CHIL.) CHILDRENS MEDICAL CENT. (LEUK-) LEDVROSTE INC. Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW; (WIN 5; NPI: 96-154528/35. N-PSDB; T31334. N-PSDB; T31334. Mammallan chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. autofimune disorders, certain cancers, etc. Claim 10; Page 110-111; 153pp; English. A novel human receptor (W03376), designated Eos L2 or C-C chemokin receptor 3 (CKR-3); is involved in leukocyte migration associated with inflammation. Its sequence was deduced from a genomic DNA clone (T31334). A slightly different amino acid sequence (W03377) was deduced from a CDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CKR-3 can be produced in host and is useful for screening for CKR-3 ligands, promoters and inhibitors. The inhibitors can be used to treat inflammatory disease.	(CHIL-) CHILDRENS MEDICAL CENT. (LEUK-) LEUKOSITE INC. Gerard CJ. Gerard NP. Mackay CR, Ponath PD, Post TW; Gerard CJ. Gerard NP. Mackay CR, Ponath PD, Post TW; Qin S; WPI; 96-354528/35. N-PSDB; T71334. Mammalian chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc. Claim 10; Page 110-111; 153pp; English. A novel human receptor (W03376), dessignated Eos L2 or C-C chemokin receptor 3 (CKR-3) its sequence was deduced from a genomic DNA clone (T31334). A slightly different amino acid sequence (W03377) was deduced from a cDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CKR-3 can be produced in host and is useful for screening for CKR-3 ligands, promoters and inhibitors. The inhibitors can be used to treat inflammatory disease.	(LEDK-) LEUKOSITE INC. Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW; Qin S; WPI; 96-354528/35. N-PSDB; 731334. N-PSDB; 731334. N-PSDB; 731334. N-PSDB; 731334. Andrian chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc. Claim 10; Page 110-111; 1353pp; BRG11sh. Claim 10; Page 110-111; 1353pp; BRG11sh. A novel human receptor (W03376), designated Eos L2 or C-C chemokin receptor 3 (CKR-3), is involved in leukocyte migration associated with inflammation. Its sequence was deduced from a genomic DNA clone (T31334). A slightly different amino acid sequence (W03377) was deduced from a cDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CKR-3 can be produced in host cells, and is useful for screening for CKR-3 ligands, promoters and inhibitors. The inhibitors can be used to treat inflammatory disease.	Gerard CJ, Gerard NP, Mackay CR, Ponath PD, Post TW; Qin S; WPI; 96-354528/35. N-PSDB; T31334. N-PSDB; T31334. N-PSDB; T31334. Mammalian chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc. Claim 10; Page 110-111; 153pp; English. A novel human receptor (W03376), Gesignated Eos L2 or C-C chemokin receptor 3 (CKR-3), is involved in leukocyte migration associated with inflammation. Its sequence was deduced from a genomic DNA clone (T31334). A slightly different amino acid sequence (W03377) was deduced from a CDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CKR-3 can be produced in host and is useful for screening for CKR-3 ligands, promoters and inhibitors. The inhibitors can be used to treat inflammatory disease.	WPI: 96-354528/35. N-PSDB; T31334. N-PSDB; T31334. Mammalian chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc. Claim 10; Page 110-111; 153pp; English. A novel human receptor (W03376), dessignated Bos L2 or C-C chemokin receptor 3 (CKR-3), is involved in leukocyte migration associated with inflammation. Its sequence was deduced from a genomic DNA clone (T31334). A slightly different amino acid sequence (W03377) was deduced from a CDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CKR-3 can be produced in host and is useful for screening for CKR-3 ligands, promoters and inhibitors. The inhibitors can be used to treat inflammatory disease.	WPI: 96-154528/35. N-PSDB; 731334. N-PSDB; 731334. Mammalian chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc. Claim 10; Page 110-111; 153pp; Baglish. Claim 10; Page 110-111; 153pp; Baglish. A novel human receptor (W03376), designated Eos L2 or C-C chemokin receptor 3 (CKR-3), is involved in leukocyte migration associated with inflammation. Its sequence was deduced from a genomic DNA clone (T3134). A slightly different amino acid sequence (W03377) was deduced from a cDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CKR-3 can be produced in host cells, and is useful for screening for CKR-3 ligands, promoters and inhibitors. The inhibitors can be used to treat inflammatory disease.	N-PSDB; T31334. Mammalian chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc. Claim 10; Page 110-111; 153pp; English. A novel human receptor (W03376), designated Eos L2 or C-C chemokin receptor 3 (CKR-3), is involved in leukocyte migration associated with inflammation. Its sequence was deduced from a genomic DNA clone (T31334). A slightly different amino acid sequence (W03377) was deduced from a cDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CKR-3 can be produced in host cells, and is useful for screening for CKR-3 ligands, promoters and inhibitors. The inhibitors can be used to treat inflammatory disease.	Mammalian chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc. Claim 10; Page 110-111; 153pp; English. A novel human receptor (W03376), destynated Bos L2 or C-C chemokin receptor 3 (CKR-3) its nivolved in leukocyte migration associated with inflammation. Its sequence was deduced from a genomic DNA clone (T31334). A slightly different amino acid sequence (W03377) was deduced from a CDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CKR-3 can be produced in host and is useful for screening for CKR-3 ligands, promoters and inhibitors. The inhibitors can be used to treat inflammatory disease.					clone (131334). A slightly different was deduced from a cDNA clone (T31335 is given in W03378. Recombinant CKR-cells, and is useful for screening fo and inhibitors. The inhibitors can b disease.	was deduced from a cDNA clone (T31335 is given in W03378. Recombinant CKR-cells, and is useful for screening fo and inhibitors. The inhibitors can b disease.	is given in W03378. Recombinant CKR-3 cells, and is useful for screening for and inhibitors. The inhibitors can be disease.	cells, and is useful for screening for and inhibitors. The inhibitors can be disease.	and inhibitors. The inhibitors can be disease.	disease.		200 COMMON SEE WAY

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Human; eotaxin; eosinophil; chemoattractant; stimulation;

W Human; eotaxin; eosinophil; chemoattractant; stimulation;

W accumulation; attraction; chemotaxis; diagnosis; prevention;

W treatment; disease; inflammation; allergy; asthma; rhinitis;

W hypersensitivity; lung; neumonia; Loeffler's; syndrome;

W interstitial; ILD; idiopathic pulmonary fibrosis;

W interstitial; ILD; idiopathic pulmonary fibrosis;

W marylosing spondylitis; sclerosis; Sporgen's; polymyositis;

W dermatomyositis; bowel; anapylaxis; drug; penicillin;

W dermatitis; eczema; atopic; urticaria; necrotising; cutaneous;

W vasculitis; myositis; fascitis; multiple sclerosis;

W vasculitis; myositis; fascitis; multiple sclerosis;

W myasthenia gravis; juvenile onset diabetes; glomerulonephritis;

W transplantation; allograft; graft versus host; cancer;

W transplantation; allograft; graft versus host; cancer;

W hemmatodycic malignancy; septic; endotoxic; shock;

W hemmatodycic andignancy; septic; endotoxic; shock;

W holymyositis; dermatomyositis; immunosuppression; immunodeficiency;

W AIDS; radiation therapy; chemotherapy; autoimmune; corticosteroid;

C C chemokine receptor 3; CRK3.
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Example 7; Pages 98-99; 130pp; English.
The present sequence is human C-C chemokine receptor 3 (CRK3), to which human eotaxin (hE), an eosinophil specific chemoattractant capable of stimulating eosinophil accumulation and/or attracting eosinophils (including chemotaxis), binds.

hE can be used to develop products for the diagnosis, prevention or treatment of hE associated diseases or conditions. The products can be used to treat inflammatory or allergic diseases and conditions, including chemotaxis, including c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     respiratory allergic diseases (e.g. asthma, allergic hypersensitivity lung diseases or pneumonitis,
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21-JUN-1996; U10723.
23-JUN-1995; US-494093.
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WO9700960-A1.
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eosinophilic pneumonias such as Loeffler's syndrome and chronic cosinophilic pneumonia, interstitial lung diseases (ILD) such as idiopathic pulmonary fibrosis or ILD associated with rheumatoid arthitis, systemic lupus erythematosus (SLE), ankylosing spondylitis, systemic anaphylaxis or hypersensitivity responses, drug allergies (e.g. to penicillin and cephalosporins), insect sting allergies (e.g. to penicillin and cephalosporins), insect sting allergies, inflammatory bowel diseases (e.g. Crohn's seleroderma, psoriasis and inflammatory dermatoses (e.g. Crohn's scleroderma, psoriasis and inflammatory dermatoses (e.g. Crohn's clermatitis, eczema, atopic dermatitis, allergic contact dermatitis, unitable contourising, cutaneous and hypersensitivity vasculitis), eosinophilic myositis and fascitis, multiple sclerosis, SLE, myasthenia gravis, juvenile onset diabetes, glomerulonephritis, autoimmune thyroiditis, Bechet's disease, graft versus host disease and cancers with leukocyte infiltration of the skin or organs. The products can also be used to treat other inflammatory resonances infilting the inhibition of undesirable
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                                                                                                                                                                                                                                                                                                                                                                                                                          inflammatory responses, including reperfusion injury, atherosclerosis, certain haematologic malignancies, cytokine induced toxicity (e.g. septic or endotoxic shock), polymyositis, dermatomyositis, immunoouppression (e.g. in individuals with immunodeficiency syndromes such as AIDS, undergoing radiation therapy, chemotherapy, therapy for autoimmune disease or other drug therapy, such as corticosteroid therapy, which causes immunosuppression), immunosuppression due to (e.g. congenital) deficiency (e.g in eotaxin) or infectious diseases such as parasitic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 mttsldtvetfgttsyyddvgllcekadtralmaqfvpplyslvftvgllgnvvvvmili 60
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Eosinophil eotaxin receptor; CC CKR3; human; treatment; dermatitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Degenerate primers based on the guinea pig ectaxin amino acid sequence were used for the reverse transcriptase polymerase chain reaction (RT-PCR) amplification of RNA isolated from inflamed, eosinophilic lung tissue obtained from Balb/c mice sensitised to ovalbumin. The amplification product was used as a probe to screen a human genomic library in vector EMBL3 SP6/T7 to obtain the hE
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Pred. No. 1.42e-228;
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W31850 standard; Protein; 355 AA.
W31850;
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nes 354; Conservative
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W03377 standard; Protein; 355 AA.
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                                                                                                                                      products for treating and preventing atopic conditions e.g. allergic reducts for treating and preventing atopic conditions e.g. allergic rhinitis, dermatitis, conjunctivitis and bronchial asthma claim 5: Page 15: 51pp: English.

This is a human eosinophil eotaxin receptor. The 5099 base pair encoding CDNA sequence comprises a 1065 base pair open reading frame encoding this 355 amino acid eosinophil eotaxin receptor protein, flanked by a 5' genomic DNA sequence and a 3' terminator region. This novel eosinophil eotaxin receptor designated CC CKR3.

Agents which bind to this eosinophil eotaxin receptor can be used for the treatment and prevention of atopic conditions such as allergic rhinitis, dermanitis, conjunctivitis and bronchial asthma. Agents which bind to this eosinophil eotaxin receptor can be used to prevent viral confection in healthy individuals and slow or halt viral progression
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rhinitis; conjunctivitis; bronchial asthma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14-DEC-1997 (first entry)
Human chemokine receptor 88-2B.
Chemokine receptor 88-2B. atherosclerosis; rheumatoid arthritis;
tumour; asthma; viral infection; AIDS; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  autoinmune disease; therapy; diagnosis; leukocyte trafficking; G protein coupled receptor; ligand; modulator; antibody; human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99.4%; Score 2748; DB 28; Length 355; 99.4%; Pred. No. 2.62e-228;
                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                             (MERL ) MERCK & CO INC.
Daugherty BL, Demartino JA, Siciliano SJ, Springer MS; WPI; 97-549685/50.
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/label- Extracellular_domain
                                                                                                                                                                                                                                                                                                                                                       Mismatches
           beta-chemokine receptor; viral infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 99.4%;
Matches 353; Conservative
                                         06-NOV-1997.
24-APR-1997.
17-JAN-1997; GB-000894.
26-APR-1996; US-016158.
26-APR-1996; US-017113.
                                                                                                                                                                                                                                                                                                  infected patients.
uence 355 AA:
                                                                                                                                 N-PSDB; T93601
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                      Homo sapiens
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N-PSDB; T88162.

New nucleic acid encoding chemokine receptors 88-2B and 88C - used to modulate leukocyte trafficking, e.g. for treatment of to modulate leukocyte trafficking, e.g. for treatment of for treatment of the ministration, tumours, viral infections, autoimmune diseases, etc. claim 1; Page 50-51; 65pp; English.

Statis polypeptide sequence comprises novel human chemokine receptor that is involved in leukocyte trafficking. Its amino sequence was deduced from a cDNA clone trafficking. Its amino sequence was deduced from a cDNA clone trafficking. Its amino sequence was deduced from a cDNA clone coccent. Chemokine receptor 88C (see W27123) has also been dentified. 88C and 88-2B receptors and their polypeptide fragments of coccent seproduced in transformed host cells. The receptors, peptides comprising one or more of the extracellular or intracellular comprising one or more of the extracellular or intracellular comprising one or more of the extracellular or intracellular creeptor activities, particularly ligand and did protein binding, and are potentially potentially useful in the treatment of are potentially potentially useful in the treatment of are potentially potentially useful in the treatment of infection, AIDS, inflammatory conditions, pathological immune response, absormal haematopoietic processes etc.
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Pred. No. 2.62e-228;
1; Mismatches 1;
13..107
'label- Extracellular_domain
                                                                                                                                                                                                                                                                                           306..355
/label= Intracellular_domain
                                                        131..151
/label= Intracellular_domain
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/label= Extracellular_domain
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Best Local Similarity 99.4%;
Matches 353; Conservative
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07-JUN-1996; US-661393.
20-DEC-1995; US-575967.
(ICOS-) ICOS CORP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mammalian chemokine receptor-3 and related nucleic acids - useful to identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc.

Claim 10; Page 113-114; 133pp; English.

A novel human receptor (W03377), designated Eos L2 or C-C chemokine receptor 3 (CRR-3), is involved in leukcyct migration associated with inflammation. Its sequence was deduced from a cubh clone (T31335) isolated from a hyper-eosinophilic syndrome patient. A spenomic clone (T3134) and a consensus sequence is given in W03378. Recombinant CRR-3 can be produced in host cells, and is useful for inhibitors can be used to treat inflammatory disease.

Sequence 355 AA;
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13-MAR-1998 (first entry)
Human CCKR3 chemokine receptor.
CCF18 chemokine; mouse; primer; PCR; amplification; antagonist; human;
abnormal physiology; development; anti-viral; probe; hybridisation.
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                                                                                                                                                                          comprise a motif
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                                                                                                                                             /note=""amino acids 130-138 comprise a r
conserved among C-X-C and C-C chemokine
receptors"
                                                                                                                                                                                                                                                                                                                                                                                     Post TW;
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Pred. No. 2.62e-228;
1; Mismatches 1;
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                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                     Mackay CR,
                                                                                                                                                                                                                                                                                                 19-JAN-1995; US-375199.
GERH ) BRIGHAM & WOMENS HOSPITAL.
(CHIL-) CHILDBENS MEDICAL CENT.
(LEUK-) LEUKOSITE INC.
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Best Local Similarity 99.4%;
Matches 353; Conservative
                      entry)
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19-JAN-1996; U00608
                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 96-354528/35
N-PSDB; T31335.
                                                                                                          Homo sapiens
                      15-NOV-1996
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CONTRACTOR OF THE CONTRACTOR O
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New isolated chemokine CCF8 and chemokine receptor CCKR3 - used to develop products useful for the diagnosis and treatment of conditions associated with abnormal physiology or development Claim 15; Page 60-62; 73pp; Bnglish.

This is the amino acid sequence of a novel CCKR3 chemokine receptor Isolated from a Th0-activated human T-cell CDMA library using the sequence amplified by primers T79097 and T79098 as a probe.

The encoded protein can be used to screen for (ant)agonists that bind to the novel CCF18 chemokines (W25941 and W25942). These (ant)agonists are useful in the treatment of conditions associated with abnormal
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 356;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
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                                                                                                 Wang
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Pred. No. 6.22e-225;
4; Mismatches 2;
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19-JAN-1996; UO0608.
19-JAN-1995; US-375199.
(BGHM ) BRIGHAM & WOMENS HOSPITAL.
(CHIL-) CHILDRENS MEDICAL CENT.
(LEUK-) LEUKOSITE INC.
GERARG CJ, GERARG NP, MACKAY CR,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 98.0%;
Best Local Similarity 98.0%;
Matches 349; Conservative
                    05-DEC-1996; U19139.
08-DEC-1995; US-567882.
                                                                   (SCHE ) SCHERING CORP. Dairaghi DJ, Hara T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                           356 AA;
                                                                                                                                                 WPI; 97-332784/30.
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                                                                                                                        Yoshimura A
19-JUN-1997
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US-08-963-656-2.rag

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MIP-1alpha and RANTES receptor nucleic acid - used to develop products for the detection of these cytokine(s) and their receptors, products for the detection of these cytokine(s) and their receptors. The particularly in inflammatory processes claim 2: Column 15-18; 12pp; English.

This polypeptide comprises a claimed receptor for human macrophage inflammatory protein-1 alpha (MIP-1 alpha) and regulated upon cutivation normal Texpressed and Secreted (RANTES) protein. Also claimed are: a nucleic acid (see T90384) that encodes the receptor; a subsequence of the nucleic acid, having at least 12 contiguous nucleotides; a cell transformed or transfected with the nucleic acid; and purified MIP-1 alpha/RANTES receptor polypeptide. The conducts can be used for detecting the MIP-1 alpha/RANTES in and polymorphisms in physiological samples. In addition, the receptor can be expressed and used to assay for MIP-1afARANTES is creceptor and perspecsed and used to assay for MIP-1afARANTES is useful for monitoring the levels of these cytokines in a patient. Such measurements are useful in following the antilnfilammatory and appropriate and processed and useful in following the antilnfilammatory.
                                                                                                                                                                                                                                                                                                    59 lvqykriknmtsiyllnlaisdllflftlpfwidyklkddwvfgdamckilsgfyytgly 118
                                                         1 metp-nttedydtttefdygdatp-cqkvnerafgaqllpplyslvfviglvgnilvvlv 58
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W26588;
21-JAN-1998 (first entry)
Human MIP-1 alpha/RANTES receptor.
Macrophage inflammatory protein-1 alpha; MIP-1 alpha;
reduced upon activation normal T expressed and secreted; R
receptor; cytokine; antiinflammatory; inflammation; human.
   68; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-JAN-1993; US-012988.
(USSH ) US DEPT HEALTH & HUMAN SERVICES
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Best Local Similarity 62.7%;
Matches 224; Conservative
224; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-JAN-1993; 012988.
28-JAN-1993; US-0129
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US5652133-A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Murphy PM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
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   Matches
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                                                                            autoimmune disorders, certain cancers, etc.
Claim 10: Page 115-116; 153pp; English.
A consensus amino acid sequence (W03378) was produced for a novel human receptor, designated Eos L2 or C-c chemokine receptor 2 (CKR-3). It was obtd. by comparing the sequences (W03376-77) deduced from a CKR-3 genomic clone (71334) and a cDNA clone (731335). Initial sequence information revealed 2 regions in which the cDNA sequence appeared to be shifted in frame, resulting in 2 sets of 4 contiguous amino acid differences in the predicted proteins. Further sequence analysis revealed only a single difference between the 2 open reading frames, the genomic clone coding for threonine at position Sequence 355 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         240
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sns. for inflammation and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241 ifvimavffifwtpynvaillsxxxxilfgndcerxxxxdlvmlvteviayshccmpvi
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             identify receptor inhibitors to treat inflammatory disease, e.g.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 355;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 1828; DB 11; Length 355; Pred. No. 8.66e-147;
                            Mammalian chemokine receptor-3 and related nucleic acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 2658; DB 19; 1
Pred. No. 2.58e-220;
0; Mismatches 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; Fig 9; 90pp; English.
The sequence is that of the C-C chemokine receive used in therapeutic or diagnostic compsns.
other cytokine mediated disorders.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C-C chemokine receptor. CC C CKH-1; cytokine; inflammation. Homo sapiens. W09411504-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ¥.
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62.7%;
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best Local Similarity 96.3%;
Matches 342; Conservative
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04-NOV-1993; U10672.
10-NOV-1992; US-974025.
(GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Horuk R, Neote K,
WPI; 94-183505/22.
N-PSDB; Q62695.
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Length 355;
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Score 1828; DB 25;
Pred. No. 8.66e-147;
68; Mismatches 61;
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Best Local Similarity

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Human MIP-lalpha/RANTES receptor protein.
Human MIP-lalpha/RANTES receptor; osteoporosis; pcCR; digestive ulcer;
macrophage inflammatory protein 1 alpha; diabetes; central disease;
regulated on activation, normal T cell expressed and secreted; allergy;
affinity compound; expression vector; CHO cell; viral disease;
infectious disease; tumour; hyperlipidaemia; hypercholesterolaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This sequence represents here.

Inflammatory protein 1 alpha/regulated on activation, normal T cell
expressed and secreted). The human MIP-1 alpha/RANTES receptor protein
may be used in a method for the screening of human MIP-1 alpha/RANTES
receptor affinity compounds. The MIP-1 alpha/RANTES receptor coding
sequence may be included in an expression vector, preferably pCCR, and
used to transform a CHO cell for use in the same method. The receptor
protein can provide a preventive and treating agent for viral diseases,
infectious diseases, tumours, allergy, diabetes, central diseases,
hyperlipidaemia, hypercholesterolaemia, osteoporosis, digestive ulcers,
seiffiilltidrylaivhavfalrartvtfgvitsiiiwalailasmpglyfsktgwef 178
                                                                                                                                                  298
                                                                                                                                                                                                                59 lvgykrlknmtsiyllnlaisdllflftlpfwidyklkddwvfgdamckilsgfyytgly 118
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     metp-nttedydtttefdygdatp-cqkvnerafgaqllpplyslvfviglvgnilvvlv 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                             viyafvgerfrkylrqlfhrrvavhlvkwlpflsvdrlervsstspstgehelsagf 355
                                                                                                                                                                                                                                                                           Preparation of human MIP-1-alpha/RANTES receptor protein - used in
                                                                                thhtcslhfpheslrewklfgalklnlfglvlpllvmiicytgiikillrrpnekkskav
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the treatment of viral diseases, tumours, allergy, diabetes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61; Indels
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Pred. No. 8.66e-147;
68; Mismatches 61;
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                                                                                                                                                                                                                                                                                                                                                            W25751 standard; Protein; 355
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28-DEC-1995; JP-342130.
(TAKE) TAKEDA CHEM IND LTD.
WPI; 97-399449/37.
N-PSDB; T86154.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of 18; Similarity 62.78;
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Best Local Similarity 62.7%;
Matches 224; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       osteoporosis etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
J09176048-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure;
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Claim 1; Page 20-21; 26pp; Japanese.
This sequence is a rat CC chemokine receptor. The receptor can be used
to screen for novel binding compounds and for preparation of antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                179 EETLCSALYPEDTVISWRHFHTLRMTIFCLVLPLLVWAICYTGIIKTLLRCPSKKKYKAI 238
                                        120 eiffiilltidrylaivhavfslrartvtfgiitsiiiwalailasipalcffkaqweft 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         60 mqhrrlqsmtsiylfnlavsdlvflftlpfwidyklkdnwvfgdamckllsgfyylglys 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     60 IKYRRLRIMTNIYLLNLAISDLLFLVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYS 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 240 lifaitllffllwtpynltvfvsafqdvlftnqceqskqldlaiqvteviaythccvnpi 299
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 meis-nitetypttteydygdstpcqktdvrafgagllpplysfvfiigvvgnilvilv1 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CC chemokine receptor protein - useful to screen for novel binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          180 hhtcsphfpdeslktwkrfgalklnllglilpllvniicyagiirillrrpnekkakavr
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                                                                                                               299 viyafvgerfrkylrglfhrrvavhlvkwlpflsvdrlervsstspstgehelsagf
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Macaque chemokine receptor 88C.
Chemokine receptor 88C, atherosclerosis; rheumatoid arthritis; tumour; asthma; viral infection; AIDS; inflammation; autoimmune disease; therapy; diagnosis; leukocyte trafficking; grotein coupled receptor; ligand; modulator; antibody.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 1720; DB 24; Length 355;
Pred. No. 2.96e-137;
89; Mismatches 61; Indels 2
                                                                                                                                                                                                                                              screen; binding; ligand
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W27125 standard; Protein; 352 AA.
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                                                                                                                                                                                      standard; Protein; 355
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larity 57.3%; Conservative
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                                                                                                                                                                                                                                             rat; CC chemokine receptor;
                                                                                                                                                                                                                 19-DEC-1997 (first entry)
                                                                                                                                                                                                                              Rat CC chemokine receptor.
                                                                                                                                                                                                                                                                                              22-FEB-1996; 035192.
22-FEB-1996; UP-035192.
(TAKE) TAKEDA CHEM IND LTWED PT-045192.
WPI: 97-486426/45.
N-PSDB; T86839.
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tes 204; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  355 AA;
                                                                                                                                                                                                                                                             rattus.
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                                                                                                                                                                                                                                                                                                                                                                                            compounds
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W29179 s
W29179;
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Matches
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ID W2
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JT 14
W27407 standard; Protein; 352 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24 CEKADTRALMAQEVPPLYSLVFTFGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLF 83
                                                                                                                                                                                                                                                                         domains, and anti-receptor antibodies can be used to modulate receptor activities, particularly ligand and G protein binding, and are potentially potentially useful in the treatment of atheroslerosis, rheumatoid arthritis, tumours, asthma, viral infection, ADES, inflammatory conditions, pathological immune response, abnormal haematopoietic processes etc. A hybridoma that produces an antibody that specifically binds to macaque 88C is
                                                                                                                                                                                       a G protein coupled receptor that is involved in leukocyte trafficking. Its amino sequence was deduced from a 88C DNA (T85163) isolated by PCR amplification. It shows 97% identity to human 88C (W27123). 88C receptors and their polypeptide fragments can be produced in transformed host cells. The receptors, peptides comprising one or more of the extracellular or intracellular
                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                            Gray PW, Raport CJ, Schweickart VL; WPI: 97-341689/31.
N-PSDB: 785163.
N-PSDB: 785163.
New nucleic acid encoding chemokine receptors 88-2B and 88C - used to modulate leukocyte trafficking, e.g. for treatment of trillammation, tumours, viral infections, autoimmune diseases, etc. Claim 36; Page 57-58; 65pp; English.
This polypeptide sequence comprises macaque chemokine receptor 88C,
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Human chemokine receptor 88C.
Chemokine receptor 88C.
chemokine receptor 88C.
tumour; asthma: viral infection; AIDS; inflammation;
autoimmune disease; therapy; diagnosis; leukocyte trafficking;
G protein coupled receptor; ligand; modulator; antibody; human.
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/label- Extracellular_domain
56..67
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                        20-DEC-1996; U20759.
07-JUN-1996; US-661393.
20-DEC-1995; US-575967.
(ICOS-) ICOS CORP.
                                                                                                                                                                                                                                                                                                                                                                                      352 AA;
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New nucleic acid encoding chemokine receptors 88-2B and 88C - used to modulate leukocyte trafficking, e.g. for treatment of inflammation, tumours, viral infections, autoimmune diseases, etc. Claim 16; Page 47-48; 65pp; English.

This polypeptide sequence comprises novel human chemokine receptor This polypeptide sequence comprises novel human chemokine receptor (T85161) isolated from a macrophage library. It shows 62% identity CC trafficking. Its amino sequence was deduced from a CDNA clone (T85161) isolated from a macrophage library. It shows 62% identity CC to CCCKRI. Chemokine receptor 88-2B (see W2712A) has also been identified. 88C and 88-2B (see W2712A) has also been comprising one or more of the extracellular or intracellular comprising one or more of the extracellular or intracellular comprising one or more of the extracellular or intracellular comprising one or more of the extracellular or intracellular creceptor activities, particularly ligand and G protein binding, and anti-receptor antibodies can be used to modulate creceptor activities, particularly ligand and G protein binding, and atteroslerosis, rheumatoid arthritis, tumours, asthma, viral infection, AIDS, inflammatory conditions, pathological immune response, abnormal haematopoietic processes etc.
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                                                                                                                                             /label= Extracellular_domain
213..235
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259..280
/label= Intracellular_domain
39..112
                                                  /label= Extracellular_domain
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LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
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WPI; 97-341689/31.
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Best Local Similarity 54.3%;
Matches 182; Conservative
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07-JUN-1996; US-661393.
20-DEC-1995; US-575967.
(ICOS-) ICOS CORP.
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Homo sapiens.
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                                                                                                                                                                                                                                 useful to diagnose, prevent and/or treat inflammatory disorders, useful to diagnose, prevent and/or treat inflammatory disorders, autofimmune disease and viral infection
autofimmune disease and viral infection
claim 4: Fig 1b-c; 94pp; English.

The present sequence is human CC (Cys-Cys) chemokine receptor
The present sequence is human CC (Cys-Cys) chemokine receptor
CCRE5, which is stimulated by MIP-1 alpha, MIP-1 beta or RANTES
Chemokines, but not by monocyte chemoattractant protein 1 (MCP-1),
MCP-2, MCP-3, interleukine 8 (IL-8) or growth related gene product
clapha (GRO alpha) chemokines. Active CCR-5 is also a receptor of
chuman immunodeficiency virus type 1 or type 2 (HIV-1) or HIV-2).
CCRS or its cDNA can used to diagnose, treat and/or prevent
inflammatory diseases, e.g. rheumatoid arthritis,
glomerulonephritis, asthma, idiopathic pulmonary fibrosis and
cancer, atherosclerosis and autoimmune disorders.
Sequence 352 AA;
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                                              human immunodeficiency virus; type 1; type 2; HIV-1; HIV-2; diagnosis; treatment; prevention; inflammatory disease; rheumatoid arthritis; glomerulonephritis; asthma; idiopathic pulmonary fibrosis; psoriasis; viral infection; cancer; atherosclerosis; autoimmune disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 352;
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CC chemokine receptor 5; CCR5; G-protein coupled receptor;
human immunodeficiency virus; HIV; CD4; AIDS; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
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Pred. No. 1.63e-117;
88; Mismatches 56;
                                                                                                                                        04-SEP-1997: BE0023.
08-FEB-1997: BE0023.
06-AUG-1996; EP-870102.
01-MAR-1966; EP-870021.
(EURO') EUROSCREEN SA.
Libert F. Parmentier M, Samson M, Vassart G; WPI; 97-479829/44.
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                                     Human Cys-Cys chemokine receptor 5; CCR5;
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W23835 standard; Protein; 352 AA.
W23835;
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Best Local Similarity 54.3%;
Matches 182; Conservative
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            (first entry)
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                                                                                                             Homo sapiens.
WO9732019-A2.
W27407;
14-APR-1998
                                                                                                                                      04-SEP-1997
                        Human CCR5
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Pred. No. 1.63e-117;
88; Mismatches 56; Indels 9
                                                                                                                                             .120
te= "extracellular loop-1 (Claim 19)"
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Alkhatil G, Berger EA, Broder CC, Combadiere
FEGG Y, Kennedy PE, Murphy PM;
WPI; 98-032650/03.
                                                                                                             /note= "transmembrane domain"
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Location/Qualifiers
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larity 54.3%;
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Search completed: Tue Dec 8 13:15:18 1998 Job time : 59 secs.

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Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

Tue Dec 8 22:05:26 1998; MasPar time 2176.70 Seconds 1389.546 Million cell updates/sec - n.a. database search, using Smith-Waterman algorithm Tabular output not generated. n.a. ch_nn Run on:

>US-08-963-656-1 (1-1689) from US08963656.seq 1688 Description: Perfect Score: N.A. Sequence: Title:

1 AATCCTTTTCCTGGCACCTC........CCCTGCTTAATGAAAAGCTT 1689
TTAGGAAAAGGACCGTGGAG.......GGGACGAATTACTTTTCGAA

TABLE default Gap 6 Scoring table:

2275026 seqs, 895388244 bases x 2 Dbase 0; Query 0 STD Searched: Nmatch

Minimum Match 0% Listing first 45 summaries Post-processing:

embl-est55 Database: Database:

1:em_est1 2:em_gss1 3:em_gss2 4:em_gss3 genbank-est107 5:gb_est1 6:gb_est10 7:gb_est11 8:gb_est12 9:gb_est13 10:gb_est14 11:gb_est15 12:gb_est16 13:gb_est17 14:gb_est18 15:gb_est2 16:gb_est2 17:gb_est27 18:gb_est21 19:gb_est3 20:gb_est4 21:gb_est5 22:gb_est6 23:gb_est7 24:gb_est8 25:gb_est9 26:gb_gss1 27:gb_gss2 28:gb_gss3 29:gb_gss4

Mean 11.804; Variance 2.047; scale 5.765 Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Pred. No.	0.00e+00	1.85e-196	6.05e-192	4.23e-87	1.18e-56	9.65e-53	7.17e-49	4.78e-45	1.59e-28	4.85e-25	2.50e-23	1.22e-21	5.66e-20
	Description	za81f05.rl Soares feta	vk28h04.rl Soares mous	vl04q01.r2 Soares mous	97SN1787 Rice Immature	97SN1787 Rice Immature	97SN1784 Rice Immature	RPCI11-22K6.TV RPCI11	97SN1784 Rice Immature	Homo sapiens ntcon2 co	Homo sapiens ntcon2 co	EST62864 Jurkat T-cell	F.rubripes GSS sequenc	mt07f02.rl Soares mous
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æ	Query Match	12.1	7.0	6.9	4.1	3.2	3.1	3.0	7.8	2.3	2.5	2.1	2.1	2.0
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AAS47303 542 bp mRNA EST 05-AUG-1997 vk28h04.rl Soares mouse mammary gland NbMMG Mus musculus cDNA clone 947859 5' similar to SW.CKR2_HUMAN P41597 MONOCYTE CHEMOATTRACTANT PROTEIN 1 RECEPTOR ;, mRNA sequence.
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Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
Gelsel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Mammalia; Eutheria; Rodentia; Sclurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         286
                                                                                                                                                                                                                                                                                                                                  CCATITCTGACCTGCTCTTCCTGITCACGCTTCCCTTCTGGATCGACTACAAGITGAAGG 226
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                                                                                                                                                                                                                                                                                                                                                                                                                             ATGACTGGGTTTTTTGGTGATGCCATGTGTAAGATCCTCTCTGGGTTTTATTACACAGGCT
                                                                                                                                                                                                                                                   4
                                                                                                                                                                                                                            Length 450;
                                                                                                                                                                                                                                                 0; Mismatches 69; Indels
                                                                                                                              /clone="298977"
/clone_lib="Soares fetal lung NbHL19W"
/dev stage="19 weeks"
/lab_host="DH10B (ampicillin resistant)"
                                                                                                                                                                                                                          Score 204; DB 20;
Pred. No. 0.00e+00;
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                                          4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Bmail: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:544815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTGATAGGTACTTGGCTATTGTCCATGCTGTTTTGCTTTAAAAGTCAGAACGGTCAACT 125
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0; Mismatches 146; Indels
            WashU-HHMI Mouse EST Project
Washington University School of MedicineP
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Project
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Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /db_xref="taxon:10090"
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/dev_stage="4 weeks"
/lab_host="DH10B"
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Query Match
Best Local Similarity 13.8%;
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                                                                                                                                                                                    Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (Dases 1 to 447)
Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylle, T., Lennon, G., Soares, B., Wilson, R. and
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                                                                                                                                                                                                                                                                                                                                                Washugton University School of MedicineP
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@fimage.llnl.gov) for further information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mus musculus
Eukaryotae; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;
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/clone_lib="Soares mouse mammary gland NbMMG"
/sex="male"
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Pred. No. 6.05e-192;
0; Mismatches 146;
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/dev_stage="4 weeks"
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                                                                                                                                                                                                                                                                                                                                    Contact: Marra M/Mouse EST Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Mus musculus"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                       The WashU-HHMI Mouse EST Project
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/note="Vector: pBluescript SK(+); Site_1: EcoRI; Site_2: Mori; Directional CDNA library inserted into lambda ZAPII vector at 5'end with EcoRI and 3' end with Xho I site." /db_xref="taxon:4530"
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1 (bases 1 to 25.2)
Nahm, B.H., Kim, J.K., Cheong, J.J., Kim, S.I., Hahn, T.R. Moon, E.P., Kim, W.T., Kim, W.Y., Yang, M.S., Park, R.D., Sohn, U.I., Kang, K.Y., Lee, M.C. and Eun, M.Y.
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/tissue_type="Immature Seed"
/dev_stage="5 days after pollination"
/lab_host="E. coli SOLR"
21 c 12 g 35 t 179 others
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Submitted by Baek Hie Nahm, Dept of Biological Science, Myongji
University, Yongin, Korea. 449-728 bhnahm@bioserver.myongji.ac.kr
Seq primer: M13 Reverse Primer.
Location/Qualifiers
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                                                                                                                                     TAATCTTTACCAGATCTCAGAAAGAAGGTTTTCATTATACATGCAGTCCTCATTTTCCAC
                                                 686 TTATCTTCTATGAGACTGAAGAGTTGTTTGAAGAGACTCTTTGCAGTGCTCTTTACCCAG
                                                                                                     ACACT-CAGTATCATTTCTGGAAGAGTTTCCAAACATTAAAGATGGTCATCTTGAGCCTG
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Pred. No. 4.23e-87;
125; Mismatches 76;
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97SN1787 Rice Immature Seed Lambda
cDNA clone 97SN1787, mRNA sequence.
AA754459
92801165
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National Inst. of Agri. Sci.
Suwon, Kyunggido, Korea
Tel: 82 331 290 0301
Fax: 82 331 290 0307
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978N1787 Rice Immature Seed Lambda ZAPII cDNA Library Oryza sativa
cDNA clone 978N1787, mRNA sequence.
AA754459
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/cultivar="Milyang23"
/cultivar="Milyang23"
/note="Vector: pRluescript SK(+); Site_1: EcoRI; Site_2:
XhoI: Directional cDNA library inserted into lambda ZAPII
vector at 5'end with BcoRI and 3' end with Xho I site."
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seed plants; Magnoliophyta; Liliopsida;
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Submitted by Back Hie Nahm, Dept of Biological Science, Myongji
University, Yongin, Korea. 449-728 bhnahm@bioserver.myongji.ac.kr
Seq primer: Ml3 Reverse Primer.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                        Oryza sativa
Eukaryotae; Viridiplantae; Charophyta/Embryophyta group;
Embryophyta; Tracheophyta; seed plants; Magnoliophyta; Liliopsida
Poales; Poaceae; Oryza
1 (bases 1 to 252)
Nahm, B.H., Kim, J.K., Cheong, J.J., Kim, S.I., Hahn, T.R, Moon, E.P.,
Kim, W.T., Kim, W.Y., Yang, M.S., Park, R.D., Sohn, U.I., Kang, K.Y.,
Lee, M.C. and Eun, M.Y.
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                     61 STMTWGTVNWBNVSGDWHYWBVBNTKVDVGNHTRCSRWRBVTRMAHYHDYTNCBBYNNND 120
                                                                   GDWHYWBVBNTKVDVGNHTRCSRWRBVTRMAHYHDYTNCBBYNNNDYHMWHBBMYBBTGC 134
                                                                                       135 MTCTMWCWBHYNTKC-TASGWHTSTNYDVKS-STNTWGVTBSYDKSMHGYWCSBBVKYHT 192
                                                                                                                                                              193 KVSTTRATRSYTCVRKYCVM-WMTKKVV-KKYHVVBBGCHBTDSKCKTMWMTNKHVMTS 249
                                                                                                                                                                                                                                   1 HWDCTMNTVRGCCCCBAWMTTSYBCHGNBVWVCVASHGNYMSVHNCTBRGTHCDCKNVNW 60
 CBAWMTTSYBCHGNBVWVCVASHGNYMSVHNCTBRGTHCDCKNVNWSTMTWGTVNWBNVS 74
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Pred. No. 1.18e-56;
119; Mismatches 91; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Department of Cytogenetics
National Inst. of Agri. Sci. and Tech,
Suwon, Kyungdido, Korea
Tel: 82 331 290 0301
Fax: 82 331 290 0307
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Best Local Similarity 13.0%;
Matches 32; Conservative
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AA754458 247 bp mRNA EST 20-JAN-1998 97SN1784 Rice Immature Seed Lambda ZAPII cDNA Library Oryza sativa cDNA clone 97SN1784, mRNA sequence.
AA754458 92801164
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/cultivar="Wilyang23"
/cultivar="Wector: pBluescript SK(+); Site_1: EcoRI; Site_2:
/hol; Directional cDNA library inserted into lambda ZAPII vector at 5'end with EcoRI and 3' end with Xho I site."
/db_xref="taxon:4530"
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1 (bases I to 247)
Nahm, B.H., Kim, J.K., Cheong, J.J., Kim, S.I., Hahn, T.R., Moon, E.P., Kim, W.T., Kim, W.Y., Yang, M.S., Park, R.D., Sohn, U.I., Kang, K.Y., Lee, M.C., and Eun, M.Y.
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/tissue_type="Immature Seed"
/dev_stage="5 days after pollination"
/lab_host="E. coli SoLR"
a 16 c 21 g 34 t 169 others
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National Inst. of Agri. Sci. and Tech, RDA
Suwon, Kynagdio, Korea
Tel: 82 331 290 0301
Fax: 82 331 290 0307
Fax: 92 bmail: myeun(sun20.asti.re.kr
Submitted by Baek Hie Nahm, Dept of Biological Science, Myongji
University, Yongih, Korea. 449-728 bhnahm@bloserver.myongji.ac.kr
Seq primer: M13 Reverse Primer.
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121 YHMWHBBMYBBTGCMTCTMWCWBHYNTKCTASGWHTSTNYDVKSSTNTWGVTBSYDKSMH 180
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                                                                                                                                                                                                                                                                    GYWCSBBVKYHTKVSTTRATRSYTCVRKYC-VMWMTKKVVKKYHVVBBGCHBTDSKCKTM
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SOURCE

ORGANISM

ERENCE AUTHORS TITLE JOURNAL COMMENT

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/organism="Oryza sativa"
/cultivar="Milyang23"
/cultivar="Milyang23"
/note="Vector: pBluescript SK(+); Site_1: EcoRI; Site_2:
XhoI; Directional cDNA library inserted into lambda ZAPII
vector at 5'end with EcoRI and 3' end with Xho I site."
/db_xref="taxon:4530"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone_lib="Rice Immature Seed Lambda ZAPII cDNA Library"
/tissue_type="Immature Seed"
/dev_stage="5 days after pollination"
/lab_host="E. coli SoLR"
16 c 21 g 34 t 169 others
                                                                                           Eukaryotae; Viridiplantae; Charophyta/Embryophyta group;
Embryophyta; Tracheophyta; seed plants; Magnoliophyta; Liliopsida;
Poales; Poaceae; Oryza.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: myeun@sun20.asti.re.kr
Submitted by Baek Hie Nahm, Dept of Biological Science, Myongji
University, Yongin, Korea. 449-728 bhnahm@bioserver.myongji.ac.kr
Seq primer: M13 Reverse Primer.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          o mRNA EST 22-DEC-1997 contig mRNA, partial sequence.
                                                                                                                                                               1 (bases 1 to 247)
Nahm,B.H., Kim,J.K., Cheong,J.J., Kim,S.I., Hahn,T.R, Moon,E.P.,
Kim,W.T., Kim,W.Y., Yang,M.S., Park,R.D., Sohn,U.I., Kang,K.Y.,
Lee,M.C. and Eun,M.Y.
                                                                                                                                                                                                                                                      Large-scale Sequencing Analysis of ESTs from Rice Immature Seed Unpublished (1998)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                76 GYGTBYYSWNVDINTGGTGVGKTTVNVHSGWNNRCSNSVVYVWBIAYCDYBHYBDRANHV 135
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CBAWMNKHTHMMTBBWCCVRRVGTTINNGKHNGRTTTWNDCSDNAHCRYTVBWYYARSKY
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Best Local Similarity 13.0%; Pred. No. 4.78e-45;
Matches 29; Conservative 102; Mismatches 90.
                                                                                                                                                                                                                                                                                                                                                     Department of Cytogenetics
National Inst. of Agri. Sci. and Tech,
Suwon, Kyungqido, Korea
Tel: 82 331 290 0301
Fax: 82 331 290 0307
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Adams, M.D., Rounsley, S.D., Zhao, S., Field, C.E., Bass, S., Linher, K.,
Golden, K., Berry, K., Granger, D., Suh, E., Wible, C., de Jong, P. and
Venter, J.C.
Use of BAC End Sequences for Sequence-Ready Map Building (1998)
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97SN1784 Rice Immature Seed Lambda ZAPII cDNA Library Oryza sativa
cDNA clone 97SN1784, mRNA sequence.
AA754458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Email: mdadams@tigr.org
For clone availability, please contact Pieter de Jong
For clone availability, please contact Pieter de Jong
For clone availability, clones may be purchased from
Research Genetics (info@resgen.com). BAC end search page:
http://www.tigr.org/tdb/humgen/bac_end_search/bac_end_search.html
Seq primer: T7
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                                                                                                                                            вы4215 469 bp DNA GSS 20-AUG-1998
RPCI11-22K6.TV RPCI11 Homo sapiens genomic clone R-22K6, genomic
Survey sequence.
B84215
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/note="Vector: pBACe3.6; Site_1: EcoRI; Site_2: EcoRI;
RPCIII Human Male BAC Library"
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                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia; Eutheria;
Primates; Catarrhini; Hominidae; Homo.
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                                                                         1145 TGCACCTGGGCAGATACATCCCATTCCTTCCTAGTGAGAAGCTGGAA 1191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unpublished (1998)
Other GSSs: RPCI11-22K6.TP
Contact: Mark Adams
Contact: Mark Adams
Department of Eukaryotic Genomics
The Institute for Genomic Research
712 Medical Center Dr., Rockville, MD 20850, USA
713: 301 838 0208
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                                         · 180 VTYGSSBYBRCGVNVMVRTTSMWTDKSTKMBSMDMSRRSRVHYGRWM 226
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Pred. No. 7.17e-49;
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103 c 113 g 11
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/clone="R-22K6"
/clone_lib="RPCII1"
/sex="Male"
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Matches 106; Conservative
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Query Match 2.2%;
Best Local Similarity 15.2%;
Matches 22; Conservative
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                                                               2 (bases 1 to 2275)
Tripodis,N. and Ragoussis,J.
Direct Submission
Submitted (13-NOV-1997) Division of Medical and Molecular Genetics,
Guy's Hospital, 7th floor, Guy's Tower, London SE1 9RT, UK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Submitted (13-NOV-1997) Division of Medical and Molecular Genetics, Guy's Hospital, 7th floor, Guy's Tower, London SE1 9RT, UK Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AFU34173 2275 bp mRNA EST 22-DEC-1997
Homo sapiens ntcon2 contig mRNA, partial sequence, mRNA sequence.
AF034173
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   551 TAATCCTGCTGACAATCGACAGGTACCTGGCCATTGTCCATGCTGTTTGCCCTTCGAG 610
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Primates; Catarrhini; Hominidae; Homo.
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Tripodis,N. and Ragoussis,J.
Generation of a transcription map in the region immediately centromearic to human MHC across the 6p21.2-6p21.3 chromosomal
Generation of a transcription map in the region immediately centromeric to human MHC across the 6p21.2-6p21.3 chromosomal
                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                             /map= bps...
/clone="ntcon2 contig"
/tissue_type="liver; brain"
/dev_stage="fetus"
/note="similar to Br140"
a 619 c 470 g 599 t
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/dev_stage="fetus"
/note="similar to Br140"
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/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="6"
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/db_xref="taxon:9606"
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2 (bases 1 to 2275)
Tripodis, N. and Ragoussis, J.
Direct Submission
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ilarity 9.6%;
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                                                 Unpublished
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Adams, M.D., Kerlavage, A.R., Fleischmann, R.D., Fuldner, R.A.,
Bult, C.J., Lee, N.H., Kirkness, E.F., Wenfastock, K.G., Gocayne, J.D.,
White, O., Sutton, G., Blake, J.A., Brandon, R.C., Man-Wal, C.,
Clayton, R.A., Cline, T.R., Cotton, M.D., Earle-Hughes, J., Fine, L.D.,
Fitzgerald, L.M., Fitzhugh, W.M., Fritchman, J.L., Geoghagen, N.S.,
Glodek, J.M., Kehley, J.C., Hanna, M.C.; Hedblom, E., Hinkle, P.S.Jr.,
Kelley, J.M., Kehley, J.C., Liu, L.-Z., Marmaros, S.M., Merrick, J.M.,
Moreno-Palanques, R.F., McDonald, L.A., Nguyen, D.T., Pelligrino, S.M.,
Phillips, C.A., Ryder, S.E., Scott, J.L., Saudek, D.M., Shirley, R.,
Bednarik, D.P., Cao, L., Cepeda, M.A., Coleman, T.A., Collins, E.J.,
Bednarik, D.P., Cao, L., Cepeda, M.A., Coleman, T.A., Collins, E.J.,
Bednarik, D.P., Gao, L., Cepeda, M.A., Coleman, T.A., Collins, E.J.,
Bednarik, D.P., Greene, J.M., Gruber, C., Hastings, G.A.,
Kozak, D.L., Kunsch, C., Hungjun, J., Li, H., Melsner, P.S., Olsen, H.,
Bullion, P.J., Fannon, M.R., Rosen, C.A., Haseltine, W.A., Fields, C.,
Fraser, C.M. and Venter, J.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence Nature 377 (6547 Suppl), 3-174 (1995)
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Email: arkerlav@tigr.org

Email: arkerlability, additional sequence and expression

information related to this EST, please check the TIGR Human Gene

Index (http://www.tigr.org/tdb/hgi.html)

Seq primer: M13 Reverse.
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Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                                                                                                             1487 RKGRRKRMTGMYKRMYRAMMAMCAMMACWWYYW-KMRGMKKCWKYRKYKKYTSTYYKSW 1545
                                                                                                                                                                                                                                                                                           1546 SRWYWYTTYTYWY-CWCCTSMKSASCAMMRWMGYMGSRSSRS-YWGYWGSMSGCYGMTKR 1603
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XhoI"
                                                                                                                                                                                                          167 GTGATAGAAGAAGAAAATACAATCCCACAATGAAGCATAATCATCCTTCGTAAAACACA 108
                                                                                                                                                                                                                                                                                                                                         AA354393 456 bp mRNA EST 21-APR-1997 EST62864 Jurkat T-cells V Homo sapiens cDNA 5' end similar to guanine nucleotide-binding protein HM89, mRNA sequence.
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Length 2275;
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The Institute for Genomic Research
9712 Medical Center Drive, Rockville, MD 20850 USA
17=1: 3018699056
Fax: 3018699423
                                                                        Indels
                                                                        40;
Score 37; DB 11; 1
Pred. No. 4.85e-25;
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/db_xref="taxon:9606"
/clone_lib="Jurkat T-cells V"
                                                                    79; Mismatches
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<1. .>456
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Contact: Kerlavage, AR
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Vector: pBluescript II KS
                                                                                                                                                                                                                                                                         FR0019847 553 bp DNA GSS 10-DEC-1997
F.rubripes GSS sequence, clone 036L10aA4, genomic survey sequence.
AL012734
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                                                                                                          246 TGGTCATGGGTTACCAGAAGAAACTGAGAAGCATGACGGACAAGTACAGGCTGCACCTGT 305
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Pred. No. 1.22e-21;
0; Mismatches 24; Indels
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2.50e-23;
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/db_xref="taxon:31033"
/clone_lib="cosmid 036L10"
/clone="036L103A4"
157 c 126 g 144 t
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Pred. No. 2
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Matches 96; Conservative
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Matches 58; Conserv
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Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
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                                                                                                                                                                                                                                                                                                                                                                                                                                Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortlum (info@image.llnl.gov) for further information.
Mus musculus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                134 CAACCIGGCCATCGCAGAICICCTITICIGIGICACACIGCCATTIAAGAICGCCTACCA 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      402 CAACCIGGCCAITICGGACCIGCICITCCICGTCACCCITCCATTCIGGAIC--C-ACIA 458
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                                                                                                                                                                                                                                                                                                                                                         4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
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                                                                                                                                                                                                                                                                                              Contact: Marra M/Mouse EST Project
WashU-HHMI Mouse EST Project
Washington University School of MedicineP
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Pred. No. 5.66e-20;
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/clone_lib="Soares mouse 3NbMS"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Seg primer: -28M13 rev2 from Amersham
High quality sequence stop: 494.
Location/Qualifiers
1. 529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Mus musculus"
                                                                                                                                                                                                      Waterston, R.
The WashU-HHMI Mouse EST Project
Unpublished (1996)
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/dev_stage="4 weeks"
/lab_host="DH10B"
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Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 (bases 1 to 602)
Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
Galsel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
                                                                                                                                                                                                                                                                                                      Submitted (08-DEC-1997) MRC Human Genome Mapping Project Resource Centre Hinxton, Cambridge, CB10 ISB. Email: biohelp@hgmp.mrc.ac.uk
Vector: pBluescript II KS
FRUUL9844 539 bp DNA GSS 10-DEC-1997
F.rubripes GSS sequence, clone 036L10aB4, genomic survey sequence.
AL012731
                                                                                                                                                                                     Percomorpha;
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Vertebrata; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1117 GCAGGTACTICCGGAACCTCTCTCCAACAAGGCGTAGATCACCGGGTTCATGCAGCAGT 1058
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                141 GCANGCGGTTCCGGAACTTCACCCCGATGAAGGCGTACANCACCGGATTGACNGCGCAGT 200
                                                                                                                                                                                                                                              Smith, S., Meek, S., Warner, S., Umrania, Y.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                               One pass dye-terminator sequencing of cosmid cloned genomic
                                                                                        GSS; genome survey sequence.
Fugu rubripes.
Fugu rubripes
Eukaryotae; Metazoa; Chordata; Vertebrata; Actinopterygii;
Neopterygii; Teleostei; Euteleostei; Acanthopterygii; Percorertacadontiformes; Tetraodontoidei; Tetraodontidae; Fugu.
I (bases I to 539)
Elgar, G., Clark, M., Smith, S., Meek, S., Warner, S., Umrania, Williams, G. and Brenner, S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Marra M/Mouse EST Project
WashIngton University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
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Pred. No. 2.48e-18;
0; Mismatches 28; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="Fugu rubripes"
/db_xref="taxon:31033"
/clone_lib="cosmid 036L10"
/clone="036L10aB4"
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The WashU-HHMI Mouse EST Project
Unpublished (1996)
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PRIMER: KS
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Best Local Similarity
Matches 57; Conserv
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JOURNAL
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AUTHORS
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This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information. MGI:505725
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 33; DB 7; Length 602;
Pred. No. 2.48e-18;
0; Mismatches 40; Indels
                                             Seg primer: -28ml3 rev2 ET from Amersham
High quality sequence stop: 388.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                      /clone_lib="Soares mouse NbMH"
                                                                                                                                                                                                                                                                                                                                                                                                                                                          152 t
                                                                                                                  /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                    /db_xref="taxon:10090"
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                                                                                                                                                                                                                                                                                                                                                                                      /tissue_type="heart"
/dev_stage="4 weeks"
/lab_host="DH108"
                                                                                                                                                                                                                                                                                                                                                                                                                                                          144 g
                                                                                                                                /strain="C57BL/6J
                                                                                                                                                                                                                                                                                                                                     /clone="861637
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Matches 73; Conservative
                                                                                                                                                                                                                                                                                                      Bonaldo.
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Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

Tue Dec 8 23:13:06 1998; MasPar time 241.51 Seconds 951.505 Million cell updates/sec - n.a. database search, using Smith-Waterman algorithm n.a. ch_nn .. 0

Tabular output not generated

Title:

1 AATCCTTTTCCTGGCACCTC.......CCCTGCTTAATGAAAAGCTT 1689 TTAGGAAAAGGACCGTGGAG............GGGACGAATTACTTTTCGAA >US-08-963-656-1 (1-1689) from US08963656.seq 1688 Description: Perfect Score: N.A. Sequence:

TABLE default Gap 6 Scoring table:

188442 segs, 68026449 bases x 2 Dbase 0; Query 0 STD Searched: Nmatch

Post-processing:

Minimum Match 0% Listing first 45 summaries

Database:

n-geneseq32 1:part1 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7 8:part4 9:part9 10:part10 11:part11 12:part12 13:part13 14:part14 15:part15 16:part16 17:part17 18:part18 19:part19 20:part20 21:part21 22:part22 23:part23 24:part24 25:part25 26:part26 27:part27 28:part28 29:part29 30:part30 31:part31 32:part32 33:part33 34:part34 35:part35 36:part36 37:part37 38:part38

Mean 9.514; Variance 5.518; scale 1.724 Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Pred. No.	0.00e+00	4.11e-281	4.11e-281	4.11e-281	1.24e-230	2.47e-136	3.54e-134						
	Description	CC-chemokine receptor	Human C-C chemokine r	Human chemokine recep	Human eosinophil eota	CC-chemokine receptor	CC-chemokine receptor	Human CCKR3 chemokine	Human MIP-lalpha/RANT	C-C chemokine recepto	Human MIP-1 alpha/RAN	CDNA encoding rat CC	Macaque chemokine rec	DNA encoding human CC
	ID	T31334	T58783	T85162	T93601	T31336	T31335	T79096	T86154	062695	T90384	T86839	T85163	T76920
	DB	23	32	34	38	23	23	36	33	11	34	34	34	39
	Ouery Match Length DB	1689	1689	1915	5099	1116	1193	101	1065	1495	2156	1544	1059	1225
æ	Query	100.0	100.0	97.1	97.0	66.1	62.9	61.0	25.1	25.1	25.1	21.0	13.3	13.2
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designated Eos L2 or C-C chemokine receptor 3 (CKR-3), involve in leukocyte migration associated with inflammation. It was isolated from a human genomic library in EMBL3 SP/7T7 vector by screening with a PCR fragment generated from eosinophil cDNA using degenerate primers (see also T31337.44). A CKR-3 cDNA clone (T31335) was also isolated, and a consensus sequence is given in T31336. The genomic and cDNA clones can be used for the prodn. of recombinant CKR-3 in host cells, or to design antisense sequence useful for treating inflammatory disease. Sequence 1689 BP; 431 A; 416 C; 344 G; 497 T;
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                                                                                  Score 1688; DB 23; Length 1689;
Pred. No. 0.00e+00;
0; Mismatches 0; Indels 0;
                                                                                    tch 100.0%; al Similarity 100.0%; 1689; Conservative
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Human i ectaxin; eosinophil; chemotaxis; diagnosis; prevention; treatment; disease; inflammation; allergy; asthma; rhinitis; hypersensitivity; lung; pneumonia; Loeffers's; syndrome; interstitial; ILD; idiopathic pulmonary fibrosis; rheumatoid arthritis; systemic; lupus erythematosus; SLE; ankylosing spondylitis; sclerosis; Sorgen's; polity, sologentis; dematomycaitis; bowel; anaphylaxis; drug; penicillin; cephalosporin; insect sting; Crohn's; ulcerative colitis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New isolated human ectaxin gene - used to develop prods. for the disease, infections and treatment of e.g. inflammation, allergies, auto-immune disease, infections and tunnours.

Example 7: Page 97: 130pp; English.

The present sequence encodes human C-C chemokine receptor 3 (CRK3), to which human ectaxin (hE), an eosliophil specific chemoatractant capable of stimulating eoslinophil accumulation and/or attracting he capable of stimulating eosliophil accumulation and/or attracting cosinophils (including chemotaxis), binds.

Example 7: Page 97: 130pp; English.

Example 97
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dermatitis, eczema; atopic, utticaria; necrotising; cutaneous; vasculitis; eczema; atopic, utticaria; necrotising; cutaneous; vasculitis; myositis: fascitis; multiple sclerosis; myasthenia gravis: juvenile onset diabetes; glomerutonephritis; autoimmune; thyroiditis; Bechet's; graft; rejection; transplantation; allograft; graft versus host; cancer; leukocyte infiltration; reperfusion injury; atherosclerosis; penanatologic malignancy; septic; endotoxic; shock; polymyositis; dermatomyositis; immunosuppression; immunodeficiency; AIDS; radiation therapy; chemotherapy; autoimmune; corticosteroid; cc chemokine receptor 3; CRR3; ss.
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therapy, such as corticosteroid therapy, which causes
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Human chemokine receptor 88-2B cDNA.

Chemokine receptor 88-2B; atherosclerosis; rheumatoid arthritis;

tumour; asthma; viral infection; AIDS; inflammation;

autoimmune disease; therapy; diagnosis; leukocyte trafficking;

G protein coupled receptor; human; ss.
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07-JUN-1996; US-661393.
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to modulate leukocyte trafficking, e.g. for treatment of inflammation, tumours, viral infections, autoimmune diseases, etc. claim 7; Page 48-50; 65pp; English.

This sequence comprises a full-length cDNA coding for novel human chemokine receptor 88-2B (W27124), a G protein coupled receptor that is involved in leukocyte trafficking. The 88-2B cDNA was obtained from a macrophage cDNA library using 88-2B-specific primers. A full-length clone (see T89161) for chemokine receptor 88C (W27123) cush is a so obtained. 88C and 88-2B cDNA scan be used to produce recombinant polypeptides in transformed host cells for use in the treatment of e.g. atheroslerosis, rheumatoid arthritis, tumours, as thma, viral infection, AIDS and inflammatory conditions. Nucleic acid fragments can be used to isolate genomic sequences, to detect alleles of the gene (for diagnosis or in gene therapy), to alter ceeptor genetics to facilitate identification of modulators and to produce knockout animals, and (antisense forms) to alter/study the sequence 1915 BP; 488 A; 470 C; 373 G; 584 T;
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Pred. No. 0.00e+00;
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Local Similarity 99.3%;
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Human eosinophil eotaxin receptor CC CKR3 encoding CDNA.
Eosinophil eotaxin receptor; CC CKR3; human; treatment; dermatitis;
                                cctggtcatgctggtgacagaggtgatcgcctactcccactgctgctgatgaacccggtgat
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Products for treating and preventing atopic conditions e.g. allergic products for treating and preventing atopic conditions e.g. allergic rhinitis, dermatitis, conjunctivitis and bronchial asthma claims 12, 13, 14; Pages 16-20; Sipp; Bonalish.

This CDNA encodes a human ecsinophil ectaxin receptor. This 5099 base pair sequence comprises a 1065 base pair open reading frame encoding a 55 amino acid ecsinophil ectaxin receptor protein, flanked by a 5' genomic DNA sequence and a 3' terminator region. This novel ecsinophil ectaxin receptor fasty mated CC CKR3. Agents which bind to this ecsinophil ectaxin receptor can be used for the treatment and prevention of atopic conditions such as allergic rhinitis, dermatitis, conjunctivitis and bronchial asthma. Agents which lection in healthy individuals and slow or halt viral progression in infected patients. 3585 atopic condition; allergic rhinitis; conjunctivitis; bronchial asthma; beta-chemokine receptor; viral infection; ss. Homo sapiens. 59 Gaps aatccttctcctggcacctctgatatgccttttgaaattcatgttaaagaatccctaggc 1 AATCCTTTTCCTGGCACCTCTGATAT-CCTTTTGAAATTCATGTTAAAGAATCCTTAGGC aatgacaacctcactagatacagttgagacctttggtaccacatcctactatgatgacgt gggcctgctctgtgaaaaagctgataccagagcactgatggcccagtttgtgccccgct gtactccctggtgttcactgtgggcctcttgggcaatgtggtggtggtgatgatcctcat GTACTCCCTGGTGTTCACTGTGGGCCTCTTGGGCAATGTGGTGGTGGTGATGATCCTCAT 7; 1527 T; eosinophil eotaxin receptor genomic DNA flanking sequence 5; Indels Length (MERI) MERCK & CO INC.
Daugherty BL, Demartino JA, Siciliano SJ, Springer MS; WPI; 97-549685/50.
P-PSDB; W31850. 1013 G; Score 1637; DB 38; Pred. No. 0.00e+00; 0; Mismatches /*tag= c /note= "terminator region" 1171 C;

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19-JAN-1995; US-3751
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P-PSDB; W03378.

Mammalian chemokine receptor-3 and related nucleic acids - useful to identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc.

Claim 1; Page 114-115; 153pp; English.

Claim 1; Page 114-115; 153pp; English.

Claim 1; Page 104-115; 153pp; English.

Claim 2; Page 104-115; 153pp; English.

Claim 3; Page 104-115; 153pp; English.

Claim 4; Page 104-115; 153pp; English.

Claim 5; Page 104-115; 153pp; English.

Claim 6; Page 104-115; 153pp; 153pp; 154pp; 154pp;
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CC-chemokine receptor 3 cDNA clone
CC-chemokine receptor 3; CKP-3; Eos antlinflammatory; eosinophil; ss.
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Mammalian chemokine receptor-3 and related nucleic acids - useful to identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc.

Claim !; Page 111-113; 153pp; English.

A genomic DNA clone (T31335) codes for a novel receptor (W03377), designated Bos Lo or Cc chemokine receptor 3 (CRR-3), involved in leukocyte migration associated with inflammation. It was isolated from a human library constructed from eosinophils obtd.

C from a patient with hyper-eosinophilic syndrome using a probe (pt cDNA) encoding the MIP-lalpha/RANTES receptor. A CRR-3 genomic clone (T31334) was also isolated, and a consensus sequence is given in T31336. The CDNA and genomic clones can be used for the prodn. of recombinant CRR-3 in host cells, or to design antisense sequences useful for treating inflammatory disease.

Sequence 1193 BP; 274 A; 310 C; 275 G; 334 T;
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Pred. No. 0.00e+00;
0; Mismatches 2; Indels 0;
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19, coding for serine (AGC) at ion 276; a genomic clone has CG positions, coding for threonine
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(CHIL-) CHILDRENS MEDICAL CENT.
(LEUK-) LEUKOSITE INC.
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Best Local Similarity 99.8%;
Matches 1114; Conservative
    918-919, c
position ;
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US-375199.
                                           these (AGC)"
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19-JAN-1995;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New isolated chemokine CCF8 and chemokine receptor CCKR3 - used to develop products useful for the diagnosis and treatment of conditions associated with abnormal physiology or development (laim 15; Page 60-62; 73pp. English.

This is the nucleotide sequence encoding a novel CCKR3 chemokine receptor isolated from a Th0-activated human T-cell CDKR3 chemokine using the sequence amplified by primers T79097 and T79098 as a probe. The encoded protein can be used to screen for (ant)agonists that bind to the novel CCKI8 chemokines (W25941 and W25942). These (ant)agonists physiology or development.
                                                                                                                                                                                                                                                                                                                                                                                              Human CCKR3 chemokine receptor coding sequence.
CCF18 chemokine; mouse; primer; PCR; amplification; antagonist; human; abnormal physiology; development; anti-viral; probe; hybridisation; ss.
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                          918 gcaagcatctggacctggtcatgctggtgacagaggtgatcgcctactcccactgctgca
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                  ggcatttccacactctgagaatgaccatcttctgtctcgttctccctctgctcgttatgg
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/product= CCKR3 chemokine
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05-DEC-1996; U19139.

08-DEC-1995; US-567882.

(SCHE ) SCHERING CORP.

Dairaghi DJ, Hara T, Miyajima A,

YOSHImura A,

WPI: 97-332784/30.

P-PSDB; W25943.
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T79096;
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                                                                                    ggcctgctctgtgaaaaagctgataccagagcactgatggcccagtttgtgccccgctg
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                      'n
 Length 1071;
                     Indels
  Score 1030; DB 36;
Pred. No. 0.00e+00;
                      Mismatches
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  61.0%;
98.8%;
Query Match 61.0%;
Best Local Similarity 98.8%;
Matches 1058; Conservative
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TO WAY-1994.

10 10672.

11 04-NOV-1992; US-974025.

12 04-NOV-1992; US-974025.

13 10-NOV-1992; US-974025.

14 04-NOV-1992; US-974025.

15 10-NOV-1992; US-974025.

16 10-NOV-1992; US-974025.

17 05-NOV-1992; US-974025.

18 PPSDB, R52749.

19 PSDB, R52749.

10 PPSDB, R52749.

10 PPSDB, R52749.

11 PPSDB, R52749.

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Sequence 1495 BP; 348 A; 389 C; 361 G; 397 T;
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                                                                                                                                                                  TAGCTGGAGGCATTTCCACACTCTGAGAATGACCATCTTCTGTCTCGTTCTCCCTCTGCT
                                                                                                                                                                                                                                                ggtcatgatcatctgctacacagggattataaagattctgctaagacgaccaaatgagaa
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0; Mismatches 271; Indels
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C-C Chemokine receptor DNA.
C-C CKR-1; cytokine; inflammation;
Homo sapiens.
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Best Local Similarity 71.9%;
Matches 695; Conservative
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Claim 6: Page 15: 19pp: Japanese.

This sequence encodes human MIP-1 alpha/RANTES receptor (macrophage inflammatory protein 1 alpha/Regulated on activation, normal T cell expressed and secreted). The human MIP-1 alpha/RANTES receptor protein may be used in a method for the screening of human MIP-1 alpha/RANTES receptor affinity compounds. The MIP-1 alpha/RANTES receptor coding sequence may be included in an expression vector, preferably pcCR, and used to transform a CHO cell for use in the same method. The receptor protein can provide a preventive and treating agent for viral diseases, infectious diseases, tumours, allergy, diabetes, central diseases.
                                                                                                                                                                                                                                                                NOV-1997 (first entry)
Human MIP-lalpha/RANTES receptor protein coding sequence.
Human MIP-lalpha/RANTES receptor: osteoporosis: pCCR: digestive ulcer;
macrophage inflammatory protein lalpha; diabetes; central disease;
regulated on activation, normal T cell expressed and secreted; allergy;
affinity compound; expression vector; CHO cell; viral disease;
infectious disease; tumour; hyperlipidaemia; hypercholesterolaemia; ss.
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28-DEC-1995; JP-342130.
(TAKE) TAKEDA CHEM IND LTD.
WPI; 97-399449/37.
P-PSDB; W25751.
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Local Similarity 71.9%;
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21-JAN-1998 (first entry)
Human MIP-1 alpha/RANTES receptor gene.
Macrophage inflammatory protein-1 alpha; MIP-1 alpha;
reduced upon activation normal T expressed and secreted; RANTES;
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PT MIP-1-1pha and RANTES receptor nucleic acid - used to develop products for the detection of these cytokine(s) and their receptors, particularly in inflammatory processes Claim 1: Column 11-16; 12pp; Bnglish.

Claim 1: Column 11-16; 12pp; Bnglish.

This nucleic acid sequence encodes a claimed receptor for macrophage inflammatory protein-1 alpha (MIP-1 alpha) and regulated upon cartivation normal T expressed and secreted (RANTES) protein. Also claimed are: (1) a subsequence of the nucleic acid, having at least 12 contiguous nucleotides; (2) a cell transformed or transfected with the nucleic acid; and (3) purified NIP-1 alpha/RANTES receptor columned for detecting the MIP-1 alpha/RANTES receptor and polymorphisms in physiological samples. In addition, the receptor can be expressed and used to assay for maddition, the receptor can be expressed and used to assay for alpha/RANTES is useful for monitoring the levels of these cytokines in a patient. Such measurements are useful in following the anti-inflammatory effects of drugs and prospective usefulness of new anti-inflammatory effects. 279 GGCCCAGTTTGTGCCCCCGCTGTACTCCCTGGTGTTCACTGTGGGCCTCTTGGGCAATGT 338 400 518 460 638 GACTGAAGAGTTGTTTGAAGAGACTCTTTGCAGTGCTCTTTACCCAGAGGATACAGTATA 758 ggcccaactgctgccccctctgtactccttggtatrtgtcattggcctggttggaaacat caagttgaaggatgactgggtttttggtgatgccatgtgtaagatcctctctgggtttta ttacacaggcttgtacagcgagatcttttcatcatcctgctgacgattgacaggtacct ggccatcgtccacgccgtgtttgccttgcgggcacggaccgtcacttttggtgtcatcac cagcatcatcatttgggccctggccatcttggcttccatgccaggcttatacttttccaa gacccaatgggaattcactcaccacacctgcagccttcactttcctcacgaaagcctacg agagtggaagctgtttcaggctctgaaactgaacctctttgggctggtattgcctttgtt cetgaacetggccatttctgacetgctcttcctgttcacgettcccttctggatcgacta ; 0 SS Length 2156; 567 T; Indels cytokine; antiinflammatory; inflammation; 504 G; Score 424; DB 34; L Pred. No. 4.11e-281; 0; Mismatches 271; 547 C; HUMAN SERVICES Location/Qualifiers 63..1130 /*tag= a 538 A; ry Match 25.1%; t Local Similarity 71.9%; ches 695; Conservative ď 28-JAN-1993; 012988. 28-JAN-1993; US-012988. (USSH) US DEPT HEALTH. Murphy PM; inflammatory agents. Sequence 2156 BP; WPI; 97-392945/36. P-PSDB; W26588. Homo sapiens receptor; Query Match 341 Matches 221 339 281 399 459 401 519 579 639 669 161 461 521 581 Key a g 셤 g 셤 ò ò g ò 8 δ g δ ò δ δŏ 원 ò

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T85163 standard; cDNA; 1059
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07-JUN-1996; US-661393.
20-DEC-1995; US-575967.
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                                                                  ccctacaatttgactatacttatttctgttttccaagacttcctgttcacccatgagtg
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This cDNA encodes a rat CC chemokine receptor. The receptor can
to screen for novel binding compounds and for preparation of ant
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Pred. No. 1.24e-230;
0; Mismatches 314; Indels 0
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T16839;
19-DEC-1997 (first entry)
CDNA encoding rat CC chemokine receptor.
Trat: CC Chemokine receptor; screen; binding; ligand;
Rattus rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                  screen for
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Q2-SEP-1997.

Q2-FEB-1996; 035192.

Q2-FEB-1996; JP-035192.

(TAKE ) TAKEDA CHEM IND LTD.
WPSDB; W29179.

CC Chemokine receptor protein - useful to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ouery Match 21.0%; Score 355;
Best Local Similarity 68.1%; Pred. No. 1.
Matches 669; Conservative 0; Mismatc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   347 C;
                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
33..1100
/*tag= a
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DD 119
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tcactttacctttctggattgactacaagctgaaagacaactgggtttttggtgatgcca
                                                                          tgtgtaagcttctctctgggttttattacctgggcttatacagtgagatcttctttatca
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Macaque chemokine receptor 88C.
Chemokine receptor 88C.
Chemokine receptor 88C.
tumour; asthma; viral infection; AIDS; inflammation;
autoimmune disease; therapy; diagnosis; leukocyte trafficking;
G profein coupled receptor; ss.
Macaca sp.
W09722698-A2.
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945 CAATGIGGCTAICCTICTICTITCCIAICAAICCAICITAIIIGGAAAIGACIGIGAGCG 1004
                                                                                                                                                                                                                                                                          1125 CTTCCACAGGCAC 1137
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6
                                                                                                         to modulate leukocyte trafficking, e.g. for treatment of inflammation, tumours, viral infections, autoimmune diseases, etc. Caim 47, Page 56-57, 5pp; English.

This sequence comprises a coding sequence for macaque chemokine receptor 88C (W27125). It was isolated from macaque genomic DNA using primers (see T85176-77) based on human 88C cDNA (see T85161). The macaque 88C nucleotide sequence is 98% identical to that of human 88C. 88C cDNAs can be used to produce recombinant polypeptides in transformed host cells for use in the treatment of colypeptides in transformed host cells for use in the treatment of colypeptides in transformed sequences, statina, viral infection, AIDS and inflammatory conditions. Nucleic acid fragments can be used to isolate genomic sequences, to detect calleles of the gene (for diagnosis or in gene therapy), to alter receptor genetics to facilitate identification of modulators and to produce knockout animals, and (antisense forms) to alter/study the genetics and expression of the receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  276
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Mismatches 279; Indels 10; Gaps
                                                                 P-PSDB; W27125.
New nucleic acid encoding chemokine receptors 88-2B and 88C - used
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            309 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            227 G;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 225; DB 34; I
Pred. No. 2.47e-136;
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                      Schweickart VL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            249 A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13.3%;
larity 66.1%;
Conservative
                 Gray PW, Raport CJ,
WPI; 97-341689/31.
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564; Conser
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This DNA sequence codes for a novel human macrophage selective CC chemokine receptor 5 polypeptide - used to inhibit membrane claim 15; Fig 1C; 70pp; English.

This DNA sequence codes for a novel human macrophage selective CC chemokine receptor (see W23835) designated CCR5. It was isolated common and an analyzer washen to see W33834) of CCR5. It was isolated common macrophages to HIV infection depends on the susceptibility of human macrophages to HIV infection depends on coupled cell surface emcrophages to HIV infection depends on cell surface emclecules. It plays an essential role in the coupled cell surface molecules. It plays an essential role in the establishment of stable, non-human cell lines and transgenic mammals having cells that coexpress human CD4 and CCR5 provides to CCR5, ccR5 variants, and CCR5-binding agents capable of blocking membrane fusion between HIV and target cells represent potential
                                                           1005 GACGAAGCATCTGGACCTGGTCATGCTGGTGACAGAGGTGATCGCCTACTCCCACTGCTG 1064
                                                                                                                                                          872
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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                                                                                                                           catcaaccccatcatctatgcctttgtcggggagagttcagaaactacctcttagtctt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Antisense oligonucleotides can also be used to inhibit expression of CCR5 in a cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   æ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   08-JUN-1998 (first entry)
DNA encoding human CC chemokine receptor 5 (CCR5).
CC chemokine receptor 5; CCR5; G-protein coupled receptor; human immunodeficiency virus; HIV; CD4; AIDS; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches 287; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alkhatíb G, Berger EA, Broder CC, Combadiere C, Feng Y, Kennedy PE, Murphy PM; 98-032650/03.
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28-MAY-1996; US-018508.
(USSH ) US DEPT HEALTH & HUMAN SERVICES.
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T76920 standard; cDNA; 1225
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Best Local Similarity 65.4%;
Matches 557; Conservative
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AATGIGGCTATCCTTCTCTTCCTATCAATCCATCTTATTTGGAAATGACTGTGAGCGG 1005
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              cttgggtggtggtgtgtttgcgtctcccaggaatcatctttaccagatctcaaaaag
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 c--agtgggactttggaaatacaatgtgtcaactcttgacagggctctattttataggct
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    used to inhibit membrane

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DNA encoding human CC chemokine receptor 5 (CCR5) A127L val
CC chemokine receptor 5; CCR5; G-protein coupled receptor;
human immunodeficiency virus; HIV; CD4; AIDS; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (USSH ) US DEPT HEALTH & HUMAN SERVICES.
Alkhatib G, Berger EA, Broder CC, Combadiere
EGG Y, Kennedy PE, Murphy PM;
WPI: 98-032650/03.
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T76919 standard; cDNA; 1255 BP.
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28-MAY-1996; US-018508.
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Claim 15; Fig 1B; 70pp; English.

This DNA sequence codes for an Ala127Leu variant (see W23834)
of a novel human macrophage-selective CC chemokine receptor (see also W23835) that has been designated CCR5. It was isolated from a lambda gtll cDNA library. The conservative amino acid substitution should not affect the biological activity of CCR5. The susceptibility of human macrophages to HIV infection depends on cell surface expression of the human CD4 molecule and CCR5. CCR5 is a member of the 7-transmembrane superfamily of G-protein coupled cell surface meclecules. It plays an essential role in the membrane fusion step of infection by some HIV isolates. The membrane fusion step of infection by some HIV isolates. The catablishment of stable, non-human cell lines and transgenic mammals having cells that coexpress human CD4 and CCR5 provides valuable tools for research of HIV infection. Antibodies that bind membrane fusion between HIV and target cells represent potential anti-HIV therapeutics for macrophage tropic strains of HIV.

Antisense oligonucleotides can also be used to inhibit expression
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Best Local Similarity 65.4%; Pred. No. 3.54e-134;
Matches 557; Conservative 0; Mismatches 287; Indels
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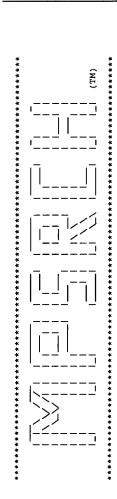
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human G-protein chemokine receptor, HDGNR10 - useful to identify
T (ant)agonists, for treatment of haematopoiesis, leukaemia, chronic
and acute inflammation, rheumatopoid arthritis, etc.
Claim 1; Page 44.46; 61pp; Bng1ish.
Claim 1; Page 44.46; 61pp; Bng1ish.
Creeptor HDGNR10 (W70602), a 7-transmembrane protein involved in
receptor HDGNR10 (W70602), a 7-transmembrane protein involved in
signal transduction. It was discovered in a cDNA library derived
from human monocytes. The cDNA may be incorporated into a vector
and utilised in the proffo. of recombinant HDGNR10, as a probe to
cetect mutations in the receptor gene associated with disease, and
in gene therapy to treat conditions related to underexpression of
the receptor e.g. to stimulate haematopoiesis, wound healing, or to
treat solid tumours, autoimnume diseases etc.
Sequence 1414 BP; 350 A; 344 C; 313 G; 407 T;
                             1065
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tctaacaggttggaccaagctatgcaggtgacagagactcttggcatgacgcactgctgc
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                                                                                                                                                                                                                                                Human G-protein chemokine receptor HDGNR10 cDNA.
G-protein chemokine receptor: HDGNR10; signal transduction;
haematcopiesis; leukaemia; inflammation; rheumatoid arthritis;
diagnosis; gene therapy; ss.
Homo sapiens.
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259..1317
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T44042 standard; cDNA; 1414 BP.
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L1 Y, Ruben SM;
WPI: 97-043072/04.
P-PSDB; W07602.
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/note= "5' |
1297..1314
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/note= "3'
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06-JUN-1995; U07173
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8 23:22:10 1998 Search completed: Tue Dec Job time : 544 secs.



Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

Wed Dec 9 00:18:36 1998; MasPar time 1546.71 Seconds 1381.249 Million cell updates/sec - n.a. database search, using Smith-Waterman algorithm Tabular output not generated ch_nn n.a. Run on:

>US-08-963-656-3 (1-1193) from US08963656.seq 1193 Title:

1 TTGTGCTTATCCGGGCAAGA.......TTGCCTAAAGAGGAGGACC 1193
AACACGAATAGGCCGGTTCT......AACGGATTTCTCCTGG Description: Perfect Score: N.A. Sequence:

TABLE default Gap 6 Scoring table:

2275026 segs, 895388244 bases x 2 Dbase 0; Query 0 STD Searched: Nmatch

Post-processing:

Minimum Match 0% Listing first 45 summaries

embl-est55 Database:

1:em_est1 2:em_gss1 3:em_gss2 4:em_gss3 genbank-est107 Database:

5:gb_est1 6:gb_est10 7:gb_est11 8:gb_est12 9:gb_est13 10:gb_est14 11:gb_est15 12:gb_est16 13:gb_est17 14:gb_est18 15:gb_est19 16:gb_est2 17:gb_est20 18:gb_est2 17:gb_est2 23:gb_est2 23:gb_est5 22:gb_est6 23:gb_est7 24:gb_est8 25:gb_est9 26:gb_gss1 27:gb_est9 28:gb_gss2 28:gb_gss3 29:gb_gss4

Mean 11.267; Variance 1.874; scale 6.013

Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

					SUMMARIES		
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2.20e-17 2.20e-17 1.03e-15 1.03e-15 4.45e-14 4.45e-14 4.45e-14 4.45e-14 4.45e-14 4.45e-14 4.45e-14 4.45e-14 4.45e-14 4.45e-14 4.45e-14 4.45e-14 4.45e-14 4.45e-14 4.45e-14 4.45e-14 4.45e-19 6.4	wr14h02.rl Barster wr14h02.rl Barster wr83f01.rl Bomo se ym31f07.rl Homo BST62304 Jurkat Tr EST222608 Normalis y143e08.sl Homo sip y143e08.sl Homo sap ne38f06.sl HOL_CG EST52633 Homo sap oc52699.rl NCI_CG oc49901.xl Scares, co91a08.sl NCI_CG co911.sl Scares, co911.sl Scares, co940a07.sl NCI_CG no440a07.sl NCI_CG no42g06.sl NCI_CG no42	10049 10049	Coord State Coord	331 2.6 5 5 33 33 33 33 33 33 33 33 33 33 33 33	20 21 22 22 22 23 24 24 25 25 26 27 27 27 28 29 20 20 31 31 31 31 31 31 31 31 31 31 31 31 31	
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4.4	np37a12.s1 NCI_CGAP_Lu	AA603100	5	9	45	
4.45e-1	zv05f10.sl Soares NhHM F.rubripes GSS sequenc		၁ မွ	2.5	4 4 2 4	
4.45e-1	ns64d08.s1 NCI_CGAP_Pr	AA652656	8	5	42	
4.456-1	no42a06.sl NCI CGAP Pr	AA622265	7 2	2	41	
4.45e-1	oq40a07.sl NCI_CGAP_Ki	AA978343	8 5	9.0	90	
4.45e-1	ac83f12.s1 Stratagene	AA679851	75	2.	38	
4.40e-1	ab89b03.x1 Spares feta	AI097155	2 10	2	37	
4.45e-1	zc09all.sl Soares para	W37302	000	2.0	32	
4.45e-1	CIT-HSP-2344P12.TF CIT	AQ055410	37	9 2.	4	
4.45e-1	co91a08.si NCI_CGAP_Ki zo80f07.rl Stratagene	AA354002 AA159773	4 6		3 6	
4.45e-1	oz49g01.x1 Soares_NhHM	AI078594	6	5	31	
4.45e-1	og52c09.sl NCI_CGAP_K1	AA977287	2.5	. 6	30	
4.45e-1	EST52629 Fetal heart I	AA346471	22	9.0		
4.45e-1 4.45e-1	ATH362 HTCDL1 Homo sap ne38f06.s1 NCI_CGAP_Co	T25959 AA494496	2 6	, 6	27	
4.45e-1	y143e08.s1 Homo sapien	H24894	82	2.	25	
1.03e-1	EST62304 Jurkat T-cell	AA354040 AT178926	5 4	2 6	n 4	
1.03e-1	ym31f07.rl Homo sapien	H29103	5	2.	2	
2.20e-1	mt83f01.rl Soares mous	AA182270	3.0	2.	· H	
2.20e-1	wpyscil.rl soares znom	AA120018 AA816049	# O	, ,	n c	
2.20e-1	56a06.rl	5341	5 5		6 0 c	
4.40e-1	sapiens ntcon	^	7.5	2 2.	7	
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4.40e-1	91/10/.11 SOUL 873h08.s1 Homo	0844	3 2		ı.	
0.080.0	7607 11 50916	;	5	,	V	

W04836 450 bp mRNA EST 23-APR-1996 za81f05.rl Soares fetal lung NbH119W Homo sapiens cDNA clone 298977 5' similar to gb:D10925 C-C CHEMOKINE RECEPTOR TYPE 1 (HUMAN);	MU4836 91277557 EST Homo sapiens Eukaryotae; Metazoa; Chordata; Metazoa; Chordata;	Tobass 1 to 450) Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevaskis, E., Waterston, R., Williamson, A., Wohldmann, P. and	The WashU-Merck EST Project Unpublished (1995) Contact: Wilson RK WashU-Merck EST Project Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Fax: 314 286 1810	Email: estwartson, wastlead This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information. Seq primer: mob.REGA+ET High quality sequence stop: 402. Location/Qualifiers 1. 450 /organism="Homo sapiens" /note="Organ: lung; Vector: pT7T3D (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; Ist
RESULT 1 LOCUS DEFINITION	ACCESSION NID KEYWORDS SOURCE ORGANISM	REFERENCE AUTHORS	TITLE JOURNAL COMMENT	FEATURES

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Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
Schallenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                clone
                      double-stranded cDNA was size selected, ligated to Eco RI adapters (Pharmacia), digested with Not I and cloned into (Pharmacia). Library want through one round of normalization to a Cot = 5. Library constructed by Bento Soares and M.Fatina Bonaldo. This library was constructed from the same fetus as the fetal heart library, Soares fetal heart NahH19w."
AA547303 542 bp mRNA EST 05-AUG-1997 vk28h04.rl Soares mouse mammary gland NbMMG Mus musculus cDNA clone 947959 5' similar to SW:CKR2_HUMAN P41597 MONOCYTE CHEMOATTRACTANT PROTEIN 1 RECEPTOR; mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus musculus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Mammalia; Eutherla; Rodentla; Sclurognathi; Muridae;
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                                                                                                                                                                                                                            2 others
                                                                                                                                                                                                                                                                                                0; Mismatches 69; Indels
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/dev_stage="19 weeks"
lab_host="DH10B (ampicillin resistant)"
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Pred. No. 0.00e+00;
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Unpublished (1996)
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80.3%;
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                                                 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
Email: mouseest@watson.wustl.edu
This clone is available royalty free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:544815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   66 ITGATAGGTACTTGGCTATTGTCCATGCTGTTTGCTTTAAAAGTCAGAACGGTCAACT .125
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/clone="947959"
/clone_lib="Soares mouse mammary gland
/sex="male"
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               WashU-HHMI Mouse EST Project
Washington University School of MedicineP
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Project
                                                                                                                                                                                                                                                /organism="Mus musculus"
                                                                                                                                                                                    High quality sequence stop: 286.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /tissue_type="mammary
/dev_stage="4 weeks"
/lab_host="DH10B"
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Marra M/Mouse EST
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Best Local Similarity 66.1%;
Matches 295; Conservative
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Contact: Eun M.Y.
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Best Local Similarity (
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                                                                                                                                                         Rodentia; Sciurognathi; Muridae; Murinae: Mus.

1 (bases 1 to 447)
Marra,M., Hiller,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
Waterston,R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š,
                                                                                                                                                                                                                                                                                                                                                                                 Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTGATAGGTACTTGGCTATTGTCCATGCTGTGTTGCTTTAAAAGTCAGAACGGTCAACT 124
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                                                                                                                                             Chordata; Vertebrata; Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  64
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                                                                                                                                                                                                                                                                                                       Contact: Marra M/Mouse EST Project
WashU-HMI Mouse EST Project
WashIngton University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1810
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
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/sex="male"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Seq primer: -28ml3 rev2 ET from Amersham
High quality sequence stop: 397.
Location/Qualifiers
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/dev_stage="4 weeks"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /organism="Mus musculus"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                             The WashU-HHMI Mouse EST Project Unpublished (1996)
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102 c
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                                                        ;, mRNA sequence.
AA671573
g2643652
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                                                                                                                                Mus musculus
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Matches 293; Conser
                                                                                                                house mouse.
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AA754459 252 bp mRNA EST 20-JAN-1998
20-JAN-1998 252 bp mRNA Seed Lambda ZAPII cDNA Library Oryza sativa
cDNA clone 97SN1787, mRNA sequence.
AA754459
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seed plants; Magnoliophyta; Liliopsida;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Email: myeun@sun20.asti.re.kr
Submitted by Back Hie Nahm, Dept of Biological Science, Myongji
University, Yongin, Korea. 449-728 bhnahm@bioserver.myongji.ac.kr
Seq primer: M13 Reverse Primer.
Location/Qualifiers
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1 (bases 1 to 252)
Nahm, B.H., Kim, J.K., Cheong, J.J., Kim, S.I., Hahn, T.R, Moon, E.P., Kim, W.T., Kim, W.Y., Yang, M.S., Park, R.D., Sohn, U.I., Kang, K.Y., Lee, M.C. and Eun, M.Y.
Lacym.C. and Eun, M.Y.
Large-scale Sequencing Analysis of ESTs from Rice Immature Seed Unpublished (1998)
                                                                                                                                                                                                TAATCTTTACCAGATCTCAGAAAGAAGGTTTTCATTATACATGCAGTCCTCATTTTCCAC 244
                                                                                                      245 ACACT-CAGTATCATTTCTGGAAGAGTTTCCAAACATTAAAGATGGTCATCTTGAGCCTG 303
                                                                                                                                                                                                                                                                        304 ATCCTGCCTCTACTTGTCATGGTCATCTGCTACTCAGGAATTCTCCACACCCTGTTTCGC 363
                                                                                                                                                                                                                                                                                                                         GTTCTCCCTCTGCTCGTTATGGCCATCTGCTACACGAATCATCAAAACGCTGCTGAGG 775
                                                                                                                                                                                                                                                                                                                                                                          TGTAGGAATGAGAAGAAGAGGCACAGGGCTGTGAGGCTCATCTTTGCCATCATGATTGTC 423
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Pred. No. 1.55e-93;
125; Mismatches 76;
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National Inst. of Agri. Sci. and Tech,
Suwon, Kyunggido, Korea
Tel: 82 331 290 0301
Fax: 82 331 290 0307
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/organism="Oryza sativa"
/cultivar="Milyang23"
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                                                                                                                                                                                                                                                                                                                       AA754459 252 bp mRNA EST 20-JAN-1998 97SN1787 Rice Immature Seed Lambda ZAPII cDNA Library Oryza sativa cDNA clone 97SN1787, mRNA sequence.
AA754459 92801165
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Charophyta/Embryophyta group;
seed plants; Magnoliophyta; Liliopsida;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Submitted by Baek Hie Nahm, Dept of Biological Science, Myongji
University, Yongin, Korea. 449-728 bhnahm@bioserver.myongji.ac.kr
Seq primer: M13 Reverse Primer.
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1 (bases 1 to 252)
Nahm, BH., Kim, J.K., Cheong, J.J., Kim, S.I., Hahn, T.R, Moon, E.P.,
Kim, W.T., Kim, W.Y., Yang, M.S., Park, R.D., Sohn, U.I., Kang, K.Y.,
Lee, M.C. and Bun, M.Y.
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                  387 GGGTTTTTGGCCATGCGATGTGTAAGCTCCTCAGGGTTTTATCACACA-GGCTTGTAC 445
                                                                                                                                          MTCTMWCWBHYNTKC-TASGWHTSTNYDVKS-STNTWGVTBSYDKSMHGYWCSBBVKYHT 192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCATCAGTGCTCTGGTATCAGCTTTTTCACAGAGCAGGCCCACGTCATCATAGTAGTAGTAG 132
                                                                     GDWHYWBVBNTKVDVGNHTRCSRWRBVTRMAHYHDYTNCBBYNNNDYHMWHBBMYBBTGC 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        83 BNTKVDVGNHTRCSRWRBVTRMAHYHDYTNCBBYNNNDYHMWHBBMYBBTGCMTCT-MWC 141
                                                                                                                                                                                                                193 KVSTTRATRSYTCVRKYCVM-WMTKKVV-KKYHVVBBGCHBTDSKCKTMWMTNKHVMTS 249
CBAWMITSYBCHGNBVWVCVASHGNYMSVHNCTBRGTHCDCKNVNWSTMTWGTVNWBNVS 74
                                                                                                                                                                                                                                      23 YBCHGNBVWVCVASHGNYMSVHNCTBRGTHCDCKNVNWSTMTWGTVNWBNVSGDWHYWBV 82
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Pred. No. 1.28e-65;
122; Mismatches 84; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /clone_lib="Rice Immature Seed Lambda
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /tissue_type="Immature Seed"
/dev_stage="5 days after pollination"
/lab_host="E. coli SOLR"
21 c 12 g 35 t 179 otl
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National Inst. of Agri. Sci. and Tech, RDA
Suwon, Kyunggido, Korea
Tel: 82 331 290 0301
Fax: 82 331 290 0307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1. .252
/organism="Oryza sativa"
/cultivar="Milyang23"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: myeun@sun20.asti.re.kr
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Embryophyta; Tracheophyta;
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Best Local Similarity
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AUTHORS
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15
                                 327
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1. .247
/organism="Oryza sativa"
/organism="Nilyang23"
/note="Vector: pBluescript SK(+); Site_1: EcoRI; Site_2:
XhoI; Directional cDNA library inserted into lambda ZAPII
vector at 5'end with EcoRI and 3' end with Xho I site."
/db_xref="texon:4530"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AA754458 247 bp mRNA EST 20-JAN-1998 97SN1784 Rice Immature Seed Lambda ZAPII cDNA Library Oryza sativa cDNA clone 97SN1784, mRNA sequence.
AA754458 92801164
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/tissue_type="Immature Seed"
/dev_stage="5 days after pollination"
/lab_host="E.coli SOLR"
16 c 21 g 34 t 169 others
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Embryophyta; Tracheophyta; seed plants; Magnoliophyta; Liliopsida;
Poales; Poaceae; Oryza.
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Fax: 82 341 290 0307
For an advance of the Color of C
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Nahm,BH., Kim,J.K., Cheong,J.J., Kim,S.I., Hahn,T.R, Moon,E.P.,
Kim,W.T., Kim,W.Y., Yang,M.S., Park,R.D., Sohn,U.I., Kang,K.Y.,
Lee,M.C. and Bun,M.Y.
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CCTTTGTTGGAGAGAGGTTCCGGAAGTACCTGCGCCACTTCTTCCACAGGCACTTGCTCA 1055
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WBHYNTKCTASGWHTSTNYDVKS-STNTWGVTBSYDKSMHGYWCSBBVKYHTKVSTTRAT 200
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|:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| |:::| 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                                                                                                                1 HWDCTMNTVWRGCCCCBAWMNKHTHMMTBBWCCVRRVGTTTNNGKHNGRTTTWNDCSDNA
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LOCUS DEFINITION

RESULT

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ACCESSION

KEYWORDS

ORGANISM

REFERENCE AUTHORS ITLE JOURNAL

COMMENT

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//note="vector: DBluescript SK(+); Site_1: EcoRI; Site_2: XhoI; Directional cDNA library inserted into lambda ZAPII vector at 5'end with EcoRI and 3' end with Xho I site." /db_xref="taxon:4530" /clone_rie="taxon:4530" /clone_lib="Rice Immature Seed Lambda ZAPII cDNA Library" /tlssue_type="Immature Seed" /de_stage="5 days after pollination" /lab_host="E. coli SOLR" | 16 c 21 g 34 t 169 others
Eukaryotae; Viridiplantae; Charophyta/Embryophyta group; Eukbryophyta; Tracheophyta; seed plants; Magnollophyta; Lillopsida; Poales; Poaceae; Oryza.

1 (bases 1 to 247)
Nahm, B.H., Kim, J.K., Cheong, J.J., Kim, S.I., Hahn, T.R, Moon, E.P., Kim, W.H., Kim, W.Y., Yang, M.S., Park, R.D., Sohn, U.I., Kang, K.Y., Lee, M.C. and Eun, M.Y.
                                                                                                                                                                                                                                                                                                                                               Department of Cytogenetics
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National Inst. of Agri. Sci. and Tech, RDA
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National Science
Tel: 82 331 290 0307
Email: myeun@sun20.asti.re.kr
Submitted by Baek Hie Nahm, Dept of Biological Science, Myongjl
University, Yongin, Korea. 449-728 bhnahm@bioserver.myongjl.ac.kr
Seq primer: M13 Reverse Primer.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AF034173 2275 bp mRNA EST 22-DEC-1997
Homo sapiens ntcon2 contig mRNA, partial sequence, mRNA sequence.
AF034173
92707735
                                                                                                                                                                                                                Large-scale Sequencing Analysis of ESTs from Rice Immature Seed Unpublished (1998)
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1 (bases 1 to 2275)
Tripodis,N. and Ragoussis,J.
Generation of a transcription map in the region immediately centromeric to human MHC across the 6p21.2-6p21.3 chromosomal
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 247;
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4.0%; Score 48; DB 12; Length 247
Best Local Similarity 13.0%; Pred. No. 3.52e-49;
Matches 29; Conservative 102; Mismatches 90; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="Oryza sativa"/cultivar="Milyang23"
                                                                                                                                                                                                                                                                                                                         Contact: Eun M.Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
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Eukaryota: Metazoa: Chordata: Vertebrata; Mammalia; Eutheria;

Eukaryota: Metazoa: Chordata: Vertebrata; Mammalia; Eutheria;

Primates: Catarrhini: Hominidae: Homo.

1 (bases 1 to 469)

601den.K., Berry.K., Granger,D., Suh,E., Wible,C., de Jong,P. and Venter,J.C.

Use of BAC End Sequences for Sequence-Ready Map Building (1998)

14. Unpublished (1998)

15. Unpublished (1998)

16. Other GSSs: RPCIII-22K6.TP

Contact: Mark Adams

Department of Eukaryotic Genomics

The Institute for Genomic Research

9712 Medical Center Dr., Rockville, MD 20850, USA

Tel: 301 838 0200

Fax: 301 838 0200
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                                                                       B84215 469 bp DNA GSS 20-AUG-1998
PFCI11-22K6.TV RPCI11 Homo sapiens genomic clone R-22K6, genomic
Survey sequence.
B84215
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/note="Vector: pBACe3.6; Site_1: EcoRI; Site_2: EcoRI;
RPCIII Human Male BAC Library"
/db_xref="taxon:9606"
/clone="R-22K6"
/clone=lib="RPCIII"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         14 ACTGTGAAAGCACCAGTCAACTGGACCAAGCCACGCAGGTGACAGAGACTCTTGGGATGA 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 469;
1056 TGCACCTGGGCAGATACATCCCATTCCTTCCTAGTGAGAAGCTGGAA 1102
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Pred. No. 3.17e-53;
0; Mismatches 56; Indels
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103 c 113 g 113
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 4.2%;
Best Local Similarity 65.4%;
Matches 106; Conservative
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Class: BAC ends.
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Center Drive, Rockville, MD 20850
    9712 Medical Cent
Tel: 3018699056
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Bult, C.J., Lee, M.H., Kirkness, E.F., Weinbasock, K.G., Goodayne, J.D.,
White, O., Sutton, G., Blake, J.A., Brandon, R.C., Man-Wai, C.,
Clayton, R.A., Cline, T.R., Cotton, M.D., Earle-Hughes, J., Fine, L.D.,
Flizgerald, L.M., Fitzhngh, W.M., Fritchman, J.L., Geoghagen, N.S.,
Glodek, A., Gnehm, C.L., Hanna, M.C., Hedblon, E., Hinkle, P. S.Jr.
Kelley, J.M., Kelley, J.C., Liu, L.-I., Marmaros, S.M., Merrick, J.M.,
Moreno-Palanques, R.F., McDonald, L.A., Nguyen, D.T., Pelligrino, S.M.,
Phillips, C.A., Ryder, S.E., Scott, J.L., Saudek, D.M., Shirley, R.,
Small, K.V., Spriggs, T.A., Utterback, T.R., Weidman, J.F., Li, Y.,
Bednarik, D.P., Cao, L., Cepeda, M.A., Coleman, T.A., Collins, E.J.,
Dimke, D., Feng, D.-F., Ferrie, A., Fischer, C., Hastings, G.A.,
He, W.W., Hu, J.S., Greene, J.M., Gruber, J., Hudson, P., Kim, A.K.,
Kozak, D.L., Kunsch, C., Hungjun, J., Li, H., Meissner, P.S., Olsen, H.,
Raymond, L., Wei, Y.F., Wing, J., Xu, C., Yu, G.L., Ruben, S.M.,
Dillion, P.J., Fannon, M.R., Rosen, C.A., Haseltine, M.A., Fields, C.,
Initial assessment of human gene diversity and expression patterns
based upon 83 million nucleotides of CDNA sequence
2 (bases 1 to 2275)
Tripodis,N. and Ragoussis,J.
Direct Submission
Submitted (13-NOV-1997) Division of Medical and Molecular Genetics,
Guy's Hospital, 7th floor, Guy's Tower, London SE1 9RT, UK
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1482 KRWKRRKGRRKRMTGMYKRMYRAMMAMCAMMACWWYYWKMRGMKKCWKYRKYKKYTSTY 1541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1542 YKSWSRWYWYTTYTYWYCWCCTSMKSASCAMMRWMGYMGSRSSRSYWGYWGSMSGCYGMT 1601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       462 TAATCCTGCTGACAATCGACAGGAACCTGGCGATTGTCCATGCTGTTTGCCCTTGGAG 521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              522 CCCGGACTGTCACTTTTGGTGTCATCACCAGCATCGTCACCTGGGGCCTGGCAGTGCTAG 581
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            лазэч393 456 bp mRNA EST 21-APR-1997
EST62864 Jurkat T-cells V Homo sapiens CDNA 5' end similar to
ghaanine nucleotide-binding protein HM89, mRNA sequence.
92006897
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                                                                                                                                                                                                                                                                                                                                                                                                      Score 39; DB 11; Length 2275; Pred. No. 1.15e-31; 87; Mismatches 64; Indels
                                                                                                                                                                                                                                                                                                                                        149 others
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              599 t
                                                                                                                                                                                                                                              /clone="ntcon2 contig"
/tissue_type="liver; brain"
/dev_stage="fetus"
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The Institute for Genomic Research
                                                                                                                                                   /organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="6"
/map="6p21.3"
                                                                                                                                                                                                                                                                                                                 /note="similar to Br140"
                                                                                                                                                                                                                                                                                                                                   470 9
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Contact: Kerlavage, AR
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larity 9.6%;
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The 16; Conserv
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GSS: genome survey sequence.

Fugu rubripes.

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F.rubripes GSS sequence, clone 036L10aA4, genomic survey sequence.
AL012734
Email: arkerlav@tigr.org
For clone availability, additional sequence and expression
information related to this EST, please check the TIGR Human Gene
Index (http://www.tigr.org/tdb/hgi.html)
Seq primer: M13 Reverse.
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                                                                                                                                                                                                                                    186 TGCCCACCATCTACTCCATCATCTTCTTAACTGGCATTGTGGGCAATGGATTGGTCATCC 245
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 36; DB 25; Length 456
Pred. No. 3.88e-26;
0; Mismatches 61; Indels
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Pred. No. 2.45e-24;
0; Mismatches 24; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                             /db_xref="ATCC (inhost):154827"
/db_xref="taxon:9606"
/clone_lib="Jurkat T-cells V"
/cell_type="T-lymphocyte"
<1. .>456
a 121 c 105 g 111 t
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/organism="Fugu rubripes"
/db_xref="taxon:31033"
/clone_lib="cosmid 036L10"
/clone="036L108A4"
a 157 c 126 g 144 t
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Best Local Similarity 61.1%;
Matches 96; Conservative
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Best Local Similarity 70.7%;
Matches 58; Conservative
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RESULT LOCUS

ACCESSION ORDS

ORGANISM

REFERENCE AUTHORS TITLE JOURNAL COMMENT

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AA511931 602 bp mRNA EST 08-JUL-1997 vg17f07.r1 Soares mouse NbMH Mus musculus cDNA clone 861637 5' similar to 9b:L19315 CHOLECYSTOKININ TYPE A RECEPTOR (HUMAN);, mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Submitted (08-DEC-1997) MRC Human Genome Mapping Project Resource Centre Hinxton, Cambridge, CB10 1SB. Email: blohelp@hgmp.mrc.ac.uk
Vector: pBluescript II KS
                                                                                                                                                                                                                                                                                                                                               FR0019844 539 bp DNA GSS 10-DEC-1997
F.rubripes GSS sequence, clone 036L10aB4, genomic survey sequence.
AL012731
92679099
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                   313 CAACCTGGCCATTTCGGACCTGCTCTTCCTCGTCACTCCTGGATC--C-ACTA 369
                                                                                                   CAACCTGGCCATCGCAGATCTCCTTTTCTGTGTCACACTGCCATTTAAGATCGCCTACCA 193
                                                                               TCTCAATGGCAACAACTGGGTATTTGGCGAGGTCACGTGCCGGATCACCACGGTTGTTT 253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryotae; Metazoa; Chordata; Vertebrata; Actinopterygii;
Neopterygii; Teleostei; Euteleostei; Acanthopterygii; Percomor
Tetraodoniiformes; Tetraodontoidei; Tetraodontidae; Fugu.
1 (bases 1 to 539)
Elgar, G., Clark, M., Smith, S., Meek, S., Marner, S., Umrania, Y.,
Williams, G. and Brenner, S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
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Pred. No. 8.28e-21;
0; Mismatches 28; Indels
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/organism="Fugu rubripes"
/db_xref="taxon:31033"
/clone_lib="cosmid 036L10"
/clone="036L10a84"
a 155 c 128 g 111 t
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Fugu rubripes.
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Best Local Similarity 67.1%;
Matches 57; Conservative
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PRIMER: KS
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JOURNAL
                                                                               194
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SOURCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Galsel,S., Rucaba,T., Lacy,M., Le,M., Martin,J., Morris,M., Schellenberg,R., Steptoe,M., Tan,F., Underwood,K., Moore,B., Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5;
                                                                                                                                                                                                                           AA177828 529 bp mRNA EST 16-FEB-1997 mt07f02.rl Soares mouse 3NbMS Mus musculus cDNA clone 620379 5' similar to TR:G663021 G663021 PROTEINASE ACTIVATED RECEPTOR 2. ;,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
                 390
                                       280 GAGGCTCCGAATTATGACCAACATCTACCTGCTCAACCTGGCCATTTCGGACCTGCTCTT 339
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                 GAAGCGTCGCANCAGCACCGACATCTACCTGACTCACCTGGCGCTGGCGGACCTCCTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Marra M/Mouse EST Project
WashU-HMI Mouse EST Project
WashIngton University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
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Pred. No. 1.46e-22;
0; Mismatches 65; Indels
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High quality sequence stop: 494.
Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Waterston, R.
The WashU-HHMI Mouse EST Project
Unpublished (1996)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /db_xref="taxon:10090"
/clone="620379"
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/dev_stage="4 weeks"
/lab_host="DH108"
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                                                                                                 391 CGGCTTCACCCTGCTGTTCTGG 412
                                                                                                                            340 CCTCGTCACCTTCCATTCTGG 361
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Best Local Similarity 63.2%;
Matches 117; Conservative
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168 c
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Fax: 314 286 1810
                                                                                                                                                                                                                                                                                              mRNA sequence.
AA177828
g1759090
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Mus musculus
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mRNA BASE COUNT

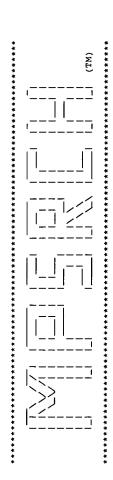
ORIGIN

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BASE COUNT
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Job time
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               human clone=298239 primer=m13 -40 forward library-Soares fetal lung MbHLJ9W vector=pT73D (Pharmacia) with a modified polylinker host=DH10B (ampicillin resistant) Rsitel=Not I Rsite2=Eco RI 19 week fetus. Ist strand cDNa was primed with a Not I - oligo(dT)
                                 1 (bases 1 to 602)
Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Gelsel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N70844 310 bp mRNA EST 14-MAR-1996
2a73h08.s1 Homo sapiens cDNA clone 298239 3' similar to gb:M11124
HLA CLASS II HISTOCOMPATIBILITY ANTIGEN, DQ(4) ALPHA CHAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
Vertebrata; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                            This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information. MGI:505725 seq. primer: -28ml3 rev2 ET from Amersham
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      324 CIGIACTCCTTCATATTCCTTCTCAGTGTGCTGGGGAACACGCTGGTTATCACGGTGCTG 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        209 creracrecerestricacreresecererriseseaarsressesesesesearsareere 268
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                                                                                                                                                                                                                              WashU-HHMI Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1810
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 602;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 33; DB 7; L
Pred. No. 8.28e-21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /clone_lib="Soares mouse NbMH"
/sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ų
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       152
                                                                                                                                                                                                            Contact: Marra M/Mouse EST Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="Mus musculus"
                                                                                                                                 Waterston, R.
The WashU-HHMI Mouse EST Project
                                                                                                                                                                                                                                                                                                                                                                                                                         High quality sequence stop: 388.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /tissue_type="heart"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /dev_stage="4 weeks"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     144 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /strain="C57BL/6J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /clone="861637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Match 2.8%;
Local Similarity 64.6%;
les 73; Conservative
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164 c
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                     Murinae; Mus
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91227424
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ORIGIN
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                                                                                                                                                   TITLE
JOURNAL
COMMENT
                                     REFERENCE
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                                                     AUTHORS
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SOURCE
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9 01:11:06 1998

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WashJ-Merck EST Project
WashJ-Merck EST Project
WashJ-Merck EST Project
WashJ-Merck EST Project
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1810
Fax: 314 286 1810
Email: estewatson.wustl.edu
High quality sequence starts: 1
High quality sequence stops: 1
Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
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                                                                                                                                                                  1 (bases 1 to 310)
Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman,M., Hultman,M., Rucaba,T., Le,M., Lennon,G., Marra,M. Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 310;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Mismatches 10; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 188 CCNCCACAATGCCCAGGAGGCCCACAGNNAACCCCAGGGNGCAGANC 234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 32; DB 19;
Pred. No. 4.40e-19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               63 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
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                                                                                                                                                                                                                                                                        Wilson, R.
The WashU-Merck EST Project
Unpublished (1995)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               78
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /clone="298239"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2.78;
78.78;
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73 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity 78.7%;
les 37; Conservative
                                                                                                                                Homo sapiens
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ch_pp protein - protein database search, using Smith-Waterman algorithm Tue Dec 8 13:11:12 1998; MasPar time 21.71 Seconds 814.247 Million cell updates/sec Tabular output not generated. Run on:

>us-08-963-656-2 (1-355) from us08963656.pep 2765 1 MTTSLDIVETFGTISYYDDV......LERTSSVSPSTAEPELSIVF 355 Title:

Description: Perfect Score: Sequence:

PAM 150 Gap 11 Scoring table:

165420 seqs, 49795644 residues Searched:

Minimum Match 0% Listing first 45 summaries Post-processing:

sptrembl6
1.sp_archea 2.sp_bacteria 3.sp_fung1 4.sp_human
5.sp_invertebrate 6.sp_mammal 7.sp_mhc 8.sp_organelle
9.sp_phage 10.sp_plant 11.sp_rodent 12.sp_unclassified
13.sp_vertebrate 14.sp_virus Database:

Mean 49.326; Variance 131.433; scale 0.375 Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		æ			COTANADA	•	
Result No.	Score	Query Match	Length	DB	e e	Description	Pred. No.
	1921	69.5	359	្ន	055169	RECEPTOR PROTEIN CKR3.	9.70e-274
7	1914	69.2	359	디	054814	CHEMOKINE RECEPTOR CCR	1.26e-272
٣	1513	54.7	352	9	018770	CCR5 RECEPTOR (FRAGMEN	4.71e-209
4	1507	54.5	352	ဖ	062745	CHEMOKINE RECEPTOR CCR	4.17e-208
5	1502	54.3	352	ဖ	062744	CHEMOKINE RECEPTOR CCR	2.57e-207
φ	1498	54.2	352	9	062746	CHEMOKINE RECEPTOR CCR	1.10e-206
7	1499	54.2	373	11	055193	CHEMOKINE RECEPTOR CCR	7.66e-207
ω	1494	54.0	352	4	015538	CCR5 RECEPTOR (FRAGMEN	4.72e-206
თ	1492	54.0	352	9	018771	CCR5 RECEPTOR (FRAGMEN	9.76e-206
10	1489	53.9	352	9	018772	CCRS RECEPTOR (FRAGMEN	2.91e-205
11	1483	53.6	352	ø	062743	CHEMOKINE RECEPTOR CCR	2.57e-204
12	1452	52.5	383	14	609680	G PROTEIN-COUPLED RECE	2.01e-199
13	1442	52.2	360	9	018793	CHEMOKINE RECEPTOR.	7.59e-198
14	1375	49.7	333	4	014694	CCR5 RECEPTOR (FRAGMEN	2.75e-187
15	932	33.7	344	4	000421	CCR6.	4.92e-118
16	877	31.7	384	4	000537	CHEMOKINE RECEPTOR CCR	1.57e-109
17	875	31.6	384	4	000290	CC-CHEMOKINE RECEPTOR	3.19e-109
18	837	30.3	367	11	054689	G PROTEIN-COUPLED RECE	2.30e-103
19	833	30.1	368	13	042444	INTERLEUKIN-8-LIKE REC	9.48e-103
.20	815	29.5	378	11	. 202800	CHEMOKINE (C-C) RECEPT	5.56e-100

307 FVGERFRKHLRLFFHRNVAIYLRKYISFLPGEKLERTSSVSPSTGEQEISVVF 359

g

1. 59e-97 1. 42e-87 1. 86e-84 1. 86e-83 2. 56e-83 3. 76e-83 1. 23e-53 1. 23e-55 2. 64e-51 7. 31e-51 7. 31e-51 7. 66e-45 1. 66e-45 3. 32e-42 3. 32e-42 1. 85e-34	
CCR10-RELATED RECEPTOR G PROTEIN-COMPLED RECE CXCR4 GENE ENCODING RE L-CCR. ALPHA-CHEMOKINE RECEPT PUTATIVE BETA CHEMOKIN CHEMOKINE RECEPTOR OPIOID RECEPTOR OWOLO MESENCHYME-ASSOCIATED MU-OPIOID RECEPTOR G-PROTEIN COUPLED RECE CHEMOKINE RECEPTOR G-PROTEIN COUPLED RECE CHEMOKINE RECEPTOR G-PROTEIN COUPLED RECE CHEMOKINE RECEPTOR ANGIOTESIN II RECEPTOR ANGIOTESIN II RECEPTOR G-PROTEIN COUPLED RECE FANSALININ RECEPTOR READYKININ RECEPTOR RININ BL RECEPTOR RININ BL RECEPTOR RININ B RECEPTOR	
009027 0015185 0015185 0010135 0046428 0046428 005747 0052747 0042324 0042324 0042324 0052931 0052931 0052931 005293 0052158 007466 007466 007466 007466 007466 007466 007479	
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ALIGNMENTS

SULT 1 PRELIMINARY; PRT 055169 O55169 O150169 (TREMBLREL. 06, CREAT 01-JUN-1998 (TREMBLREL. 06, LAST	DT 01-JUN-1998 (TREMBEREL. 06, LAST ANNOTATION UPDATE) B. RECEPTOR PROTEIN CRA3. OS RATTUS NORVEGICUS (RAT). OC EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA; OC EUTHERIA; ROBENTIA.	RP SEQUENCE FROM N.A. RC STRAIN-WISTAR; TISSUE-SPLEEN; RA HARRINGTON P.M., NEWTON D.J., COLEMAN J.W., FLANAGAN B.F.; RI SUBMITTED (JAN-1999) TO EMBL/GENBANK/DDBJ DATA BANKS.		Query Match 69.5%; Score 1921; DB 11; Length 359; Best Local Similarity 68.6%; Pred. No. 9.70e-274; Matches 242; Conservative 55; Mismatches 53; Indels 3; Gaps	Db 8 LKTVVETFETTPYEYEWAPP-CEKVSIRELGSWLLPPLYSLVFIVGLIGNMAVVLLIKY 66	67 RKLQIMTNIYLLINLAISDLIFFTVPFWIHYVLWNEWGFGHCMCKMLSGLYXLALYSEIF	Qy 63 RRLRIMTNIYLLNLAISDLLFLVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIF 122	Db 127 FIILLIIDRYLAIVHAVLALRARTVIFATITSIITWGLAVLAALPEFIFHESQDNFGDLS 186	QY 123 FILLITIDRYLAIVHAVFALRARTVIFGVITSIVIWGLAVLAALPEFIFYETEELFEETL 182	Db 187 CSPRYPEGEEDSWKRFHALRMNIFGLALPLLIMVICYSGIIKTLLRCPNKKKHKAIQLIF 246	Qy 183 CSALYPEDIVYSWRHFHILEMITECLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRLIF 242	Db 247 VVMIVFFIFWTPYNLVLLLSAFHSTFLETSCQQSIHLDLAMQVTEVITHTHCCINPILYA 306	Qy 243 VIMAVFFIFWTPYNVAILLSSYQSILFGNDCERTKHLDLVMLVTEVIAYSHCCMNPVIYA 302
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Length

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LNTFQEF-FGLNNCSSCNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH 315
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                                                                                                                                                                                                                                                                                                                                            139 ARTVTFGVVTSVITWVVAVFASLPGIIFTRSQREGLHYT-CSSHFPYSQ-YQFWKNFQTL 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                          KMVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLL 256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                139 ARTVTFGVVTSVITWVVAVFASLPGIIFTRSQREGLHYT-CSPHFPYSQ-YQFWKNFQTL 196
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                                                                                                                 20 COKINVKQIAARLLPPLYSLVFIFGFVGNILVVLILINCKRLKSMTDIYLLNLAISDLLF 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CERCOCEBUS TORQUATUS ATYS (RED-CROWNED MANGABEY) (SOOTY MANGABEY).
EURARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
                                                                                                                                                                                                                                                                                                                                                                         :| |: ||||||||| |||:||:||||| :|| :||| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| :|| 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-A0G-1998 (TREMBLREL. 07, CREATED)
01-AUG-1998 (TREMBLREL. 07, LAST SEQUENCE UPDATE)
01-AUG-1998 (TREMBLREL. 07, LAST ANNOTATION UPDATE)
CHEMOKINE RECEPPOR CCRS.
     Score 1513; DB 6; I
Pred. No. 4.71e-209;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match

S4.5%; Score 1507; DB 6;
Best Local Similarity 55.2%; Pred. No. 4.17e-208;
Matches 185; Conservative 85; Mismatches 56;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .904; G3135300; -.
352 AA; 40460 MW; E6A5AA07 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     316 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV 350
                                                             83; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  320 LIMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CHEN Z., GETTIE A., HO D.D., MARX P.A.;
VIROLOGY 0:0-0(1998).
EMBL; AF051904; G3135300; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
     54.7%;
                                                          186; Conservative
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                                  Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EUTHERIA; PRIMATES
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        Query Match
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062745;
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STRAINWISTRA: TISSUE-SPLEEN;
JIANG Y., SALAFRANCA M.N., ADHIKARI S., XIA Y., FENG L., SONNTAG M.K.,
DEFIEBRE C.M., PENNELL N.A., STREIT W.J., HARRISON J.K.;
J. NEUKOLMMUNOL. 0.0-0(1998).
EMBL; AF003954; G2897073; ---
SEQUENCE 359 AA. 41043 MW; CIFC70CA CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 242
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FIILLTIDRYLAIVHAVLALRARTVTFATITSIITWGFAVLAALPEFIFHESQDNFGDLS 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VVMIVFFIFWTPYNLVLLLSAFHSTFLETSCQQSIHLDLAMQVTEVITHTHCCINPILYA 306
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          187 CSPRYPEGEEDSWKRFHALRMNIFGLALPLLIMVICYSGIIKTLLRCPNKKKHKAIQLIF
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     355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RATTUS NORVEGICUS (RAT).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FVGERFRKHLRLFFHRNVAIYLRKXISFLPGEKLERTSSVSPSTGEQEISVVF 359
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EUTHERIA; PRIMATES.
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303 FVGERFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF
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LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
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LAST ANNOTATION UPDATE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 1914; DB 11;
Pred. No. 1.26e-272;
56; Mismatches 53;
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STRAIN-MACCR5-140A;
ZHANG L., CARRUTHERS C.D., HE T., HUANG Y., CAO Y HO D.D.;
AIDS RES. HUM. RETROVIRUSES 0:0-0(1997).
EMBL; AF011538; G2305194; -.
PFAM; PF00001; 7tm_1.
NON_TER 352
SEQUENCE 352 AA; 40523 MW; FIC10E99 CRC32;
                                                                                                              359
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                                                                                                                 PRT;
                                                                                                                                                                      06,
06,
06,
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est Local Similarity 68.3%;
atches 241; Conservative
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                                                                                                                                                                01-JUN-1998 (TREMBLREL. 01-JUN-1998 (TREMBLREL. 01-JUN-1998 (TREMBLREL. CHEMOKINE RECEPTOR CCR3.
                                                                                                              PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
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FAIMIVYFLFWTPYNIVLFLTTFQEFLGMSNCVVDMHLDQAMQVTETLGMTHCCVNPIIY 318
              LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH 315
                                                                                                                                                                                                  84 KKLKSMTDIYLFNLAISDLLFLLTLPFWAHYA-ANEWVFGNIMCKLFTGLYHIGYFGGIF 142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGVYFIGFFSGIFFIILLTIDRYLAIVHAVFALK 138
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4 SLDIVETFGTISY-YDDVGLLCEKADIRALMAQFVPPLYSLVFTFGLLGNVVVVMILIKY 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FIILLTIDRYLAIVHAVFALKARTVTFGVITSVVTWVVAVFASLPGIIFTKSEQEDDQHT
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183 CSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPS-KKKYKAIRLI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; RODENTIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
STRAIN-SPRAGUE DAWLEX;
STRAIN-SPRAGUE DAWLEX;
JIANG Y., SALAFFANCA M.N., ADHIKARI S., XIA Y., FENG L.,
DEFIEBRE C.M., PENNELL N.A., STREIT W.J., HARRISON J.K.;
J. NEDROIMMUNCL. 0:00-0(1998).
EMBL; U77349; G2896818; -.
                                                                                                                                                                                                                                                                                                                                                                                    LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
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Pred. No. 7.66e-207;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     90; Mismatches 66;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        373 AA; 42763 MW; 14578A08 CRC32;
                                                                                                                                                                                                                                               316 IAKRFCKCCSIFQQEASERASSVYTRSTGEQEISV 350
                                                                                                                                                                                                                                                               320 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
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1D 015538 PRELIMINARY;
AC 015538;
DT 01-JAN-1998 (TREMBLREL. 05,
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ilarity 53.3%;
Conservative
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les 188; Conser
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                                                                                                                                                                                                                                                                                                                                                    20 CQKINVKQIAARLLPPLYSLVFIFGFVGNILVVLILINCKRLKSMTDIYLLNLAISDLLF 79
                                                                                                                                                                                                                                                                                                                         Gaps
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                                                                                                                  CHEMOKINE RECEPTOR CCR5.
CERCOCEBUS TORQUATUS ATYS (RED-CROWNED MANGABEY) (SOOTY MANGABEY).
EUKARYOTA: METAZOA: CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CERCOCEBUS TORQUATUS ATYS (RED-CROWNED MANGABEY) (SOOTY MANGABEY).
EUKARYOTA, METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24 CEKADIRALMAQFVPPLYSLVFTFGLLGNVVVVMILIKYRRLRIMINIYLLNLAISDLLF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH
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                                                                                                                                                                                                                                                                                         Length 352;
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Pred. No. 1.10e-206;
85; Mismatches 57; Indels
                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-AUG-1998 (TREMBLREL. 07, CREATED)
01-AUG-1998 (TREMBLREL. 07, LAST SEQUENCE UPDATE)
01-AUG-1998 (TREMBLREL. 07, LAST ANNOTATION UPDATE)
CHEMOKINE RECEPPOR CCRS.
                                                                      07, CREATED)
07, LAST SEQUENCE UPDATE)
07, LAST ANNOTATION UPDATE)
                                                                                                                                                                                                                                                                                                                         26;
                                                                                                                                                                                                                                                                                       Score 1502; DB 6;
Pred. No. 2.57e-207;
86; Mismatches 56;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
CHEN Z., GETTIE A., HO D.D., MARX P.A.;
VIROLOGY 0.0-0(1998).
VIROLOGY 0.5-0(1998).
SEQUENCE 352 Aa, 40489 MM; FB9CE731 CRC32;
                                                                                                                                                                                                                                               35298; -.
40503 MW; C922372D CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IAKRFCKCCSIFQQEASERASSVYTRSTGEQEISV 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     320 LIMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
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                                           352
                                                                                                                                                                                             SEQUENCE FROM N.A.
CHEN Z., GETTIE A., HO D.D., MARX P.A.;
VIROLOGY 0.0-0(1998).
SEQUENCE 352 AA; 40503 MW; C922372D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
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Best Local Similarity 54.9%;
Matches 184; Conservative
                                                                                                                                                                                                                                                                                       Match
Local Similarity 54.9%;
les 184; Conservative
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                                         PRELIMINARY;
                                                                                     01-AUG-1998 (TREMBLREL.
01-AUG-1998 (TREMBLREL.
                                                                        01-AUG-1998 (TREMBLREL.
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Best Local S:
Matches 184
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062746
062746;
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316 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV 350
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AIDS RES.
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018772;
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LSSYQSILFG-NDCERTKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH 319
                                                                                                                                                                                                                                                                                LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAVVHAVFALK 138
                                                                                                                                                                                                                                                                                                                                   KIVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLL 256
                                                                                                                                                                                                                                                                                                                                                                                                         LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH 315
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                                                                                SEQUENCE FROM N.A.
ZHANG L., CARRUTHERS C.D., HE T., HUANG Y., CAO Y., WANG G., HAHN
                                                                                                                                                                                                                                        CQKİNVKQIAARLLPPLYSLVFIFGFVGNMLVILILINCKRLKSMTDIYLLNLAISDLFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN-CHCCR5-141A;
ZHANG L., CARRUTHERS C.D., HE T., HUANG Y., CAO Y., WANG G., HAHN
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                                                   EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
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EUKARYOTA: METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7;
                                                                                                                                                                                                 Length 352;
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Pred. No. 9.76e-206;
87; Mismatches 60; Indels
                                                                                                                                                                                              Score 1494; DB 4; Length 35
Pred. No. 4.72e-206;
87; Mismatches 57; Indels
 LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
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LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
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                                                                                                                                                                            B1ECA8D9 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            316 IAKRFCKCCSIFQQEAPERVSSVYTRSTGEQEISV 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            352 AA.
                                                                                                            AIDS RES. HUM. RETROVIRUSES 0:0-0(1997).
EMBL: AF011536; G2305190; -.
EMBL: AF011516; G2305180; -.
EMBL: AF011534; G2305186; -.
PFAM: PF00001: 7tm_1.
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AIDS RES. HUM. RETROVIRUSES 0:0-0(1997)
EMBL; AF011539; G2305196; -.
PFAM; PF00001; 7tm_1.
NON TER 352 352
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352 AA; 40552 MW;
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06,
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05,
                                                                                                                                                                                              Match 54.0%;
Local Similarity 54.3%;
es 182; Conservative
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Best Local Similarity 53.9%;
Matches 180; Conservative
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01-JAN-1998 (TREMBLREL. 0
01-JUN-1998 (TREMBLREL. 0
CCR5 RECEPTOR (FRAGMENT).
01-JAN-1998 (TREMBLREL. 01-JUN-1998 (TREMBLREL. 0CR5 RECEPTOR (FRAGMENT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
                                         HOMO SAPIENS (HUMAN)
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SEQUENCE
                                                                                                    HO D.D.;
AIDS RES.
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFS3IFFIILLTIDRYLAIVHAVFALK 138
                                                                                                                                                                                                                                                                                                                                                                               258 NTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKHI 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  197 KIVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYDIVLL 256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            257 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH 315
                                                                                                                                                                                       139 ARTVTFGVVTSVITWVVAVFASLPGIIFTRSQKGGLHYTCSSHFPYSQ-YQFWKNFQTLK 197
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24 CEKADTRALMAQEVPPLYSLVFTFGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLF 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WANG G., HAHN B.
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COKINVKQIAARLLPPLYSLVFIFGFVGNMLVILLINCKRLKSMTDIYLLNLAISNLFF
                        24 CEKADIRALMAQEVPPLYSLVFFFGLLGNVVVVMILIKYRRLRIMINIYLLNLAISDLLF
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EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-JAN-1998 (TREMBLREL. 05, CREATED)
01-JAN-1998 (TREMBLREL. 05, LAST SEQUENCE UPDATE)
01-JUN-1998 (TREMBLREL. 06, LAST ANNOTATION UPDATE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  53.9%; Score 1489; DB 6; L
larity 54.0%; Pred. No. 2.91e-205;
Conservative 88; Mismatches 57;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AIDS RES. HUM. RETROVIRUSES 0:0-0(1997).

EMBL; AF011541; G2305200; -.

PFAM; PF00001; 7tm_1.

52

SEQUENCE 352 AA; 40598 MW; A9BF8EDF CRC32;
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ZHANG L., CARRUTHERS C.D., HE T., HUANG Y.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         317 AKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV 350
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es 181; Conser
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81 LINLAISDLLFLITLPLWAHSA-ANEWVFGNAMCKLFTGLYHIGYLGGIFFIILLTIDRY 139
                                                                                       56 YEESAP-CYKSDTTRLAAQVVPALYLLVFLFGLLGNILVVIIVIRYMKIKNLTNMLLLNL 114
                                                                                                                                                115 AISDLLFLLTLPFWMHYIGMYHDWTFGISLCKLLRGVCYMSLYSQVFCIILLTVDRYLAV 174
                                                                                                                                                                                                                                                                  14 TSYYD-DVGLLCEKADTRALMAQFVPPLYSLVFTFGLLGNVVVWILIKYRRLKIMTNIY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WTPYNIVILLNTFQEF-FGLSNCESTRQLDQATQVTETLGMTHCCINPIIYAFVGEKFRR
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EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HAÜER D.A., MARGÜLIES B.J., CLEMENTS J.E.;
SUBMITTED (JUL-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
EMBL, AF013958; G2317748; -.
SPEAM: PF00001; 71m_1.
SEQUENCE 360 AA: 41111 MW; 13A47F2E CRC32;
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LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
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                             Score 1452; DB 14;
Pred. No. 2.01e-199;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 52.2%; Score 1442; DB 6; 3
Best Local Similarity 53.9%; Pred. No. 7.59e-198;
Matches 185; Conservative 85; Mismatches 63;
   60F5BFD4 CRC32;
                                                            70; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               360 AA
   43667 MW;
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05,
06,
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llarity 54.2%;
Conservative
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01-JAN-1998 (TREMBLREL.
01-JUN-1998 (TREMBLREL.
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                                         Local Similarity
nes 173; Conser
   AA;
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   383
   SEQUENCE
                             Query Match
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018793;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ARTVIFGVVISVIIWVVAVFASLPGIIFIRSQREGLHYI-CSPHFPYSQ-YQFWKNFQIL 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    197 KIVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLL 256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               257 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH 315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EQUINE HERPESVIRUS TYPE 2 (EHV-2).
VIRIDAE; DS-DNA ENVELOPED VIRUSES; HERPESVIRIDAE; ALPHAHERPESVIRINAE.
                                                                                                                                                                                                                                                                                                                                                                         79
                                                                                                                                                                                                                                                                                                                                                                                                     83
                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                 01-AUG-1998 (TREMBLREL. 07, CREATED)
01-AUG-1998 (TREMBLREL. 07, LAST SEQUENCE UPDATE)
01-AUG-1998 (TREMBLREL. 07, LAST ANNOTATION UPDATE)
CHEMOKINE RECEPTOR CRES.
CERCOCEBUS TOROUATUS ATYS (RED-CROWNED MANGABEY) (SOOTY MANGABEY).
EUKARVACH. METAZOA: CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A.J.;
                                                                                                                                                                                                                                                                                                               Length 352;
                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN-86/67;
MEDLINE; 95302501.
TELFORD E.A., WATSON M.S., AIRD H.C., PERRY J., DAVISON J. MOL. BIOL. 249:520-528(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELFORD E.A.R.;
SUBMITTED (FEB-1995) TO EMBL/GENBANK/DDBJ DATA BANKS.
L020824; G695151; --
EMBL; U20824; G695173; --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CREATED)
LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
                                                                                                                                                                                                                                                                                                            Score 1483; DB 6; L. Pred. No. 2.57e-204; 85; Mismatches 58;
                                                                                                                                                                                                                    SEQUENCE FROM N.A.
CHEN Z., GETTIE A., HO D.D., MARX P.A.;
VIROLOGY 0.0-0(1998)
EMBL: AF001902; G3135296; -.
SEQUENCE 352 AA; 40407 MW; 1716CC5C CRC32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          320 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
               353
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320 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI
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06,
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Best Local Similarity 54.6%;
Matches 183; Conservative
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                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-NOV-1996 (TREMBLREL.
01-NOV-1996 (TREMBLREL.
01-JUN-1998 (TREMBLREL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; U20824; G69517; PFAM; PF00001; 7tm_1
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139

202

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Gaps

Indels 10;

089609; 7 12 Q89609

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Length 360;

80 72 251

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Search completed: Tue Dec 8 13:12:41 1998
Job time : 89 secs.
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                                                                                                                                                                                                 EQUENCE FROM N.A.

SHANG L., CARRUTHERS C.D., HE T., HUANG Y., CAO Y., WANG G., HAHN B., HO D.D.

ALDS RES. HUM. RETROVIRUSES 0:0-0(1997).

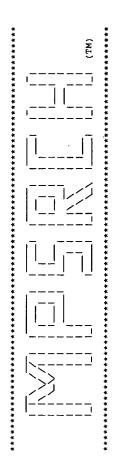
EMBL: AF011504; G2305126; -.

PFAM: PF00001; 7tm_1.

NON_TER 333 3.3.
                                                                                                                                                                                                                                                                                                                                                                     87 GLYFIGFFSGIFFIILLTIDRYLAVVHAVFALKARTVTFGVVTSVITWVVAVFASLPGII 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              205 CRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLLLNTFQEF-FGLNNCSSSNRLDQAMQVT 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      286
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  147 FTRSQKEGLHYT-CSSHFPYSQ-YQFWKNFQTLKIVILGLVLPLLVMVICYSGILKTLLR 204
                                                                                                                                                                                                                                                                                                                                                        28 GNMLVILILINCKRLKSMTDIYLLNLAISDLFFLLTVPFWAHYAAAQ-WDFGNTMCQLLT 86
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         [1]
SEQUENCE FROM N.A.
MCCOMBIE W.R., WILSON R., CHEN E., GIBBS R., ZUO L., JOHNSON D.,
NHAN M., PARNELL L., DEDHIA N., ANSARI A., MARDIS E., SCHUTZ K.,
NHAN W., PARNELL L., DEDHIA N., ANSARI A., MARDIS E., SCHUTZ K.,
GNOJ L., LA BASTIDE M., KAPLAN N., GRECO T., TOUCHMAN J., MUZNY D.,
CHEN C.N., EVANS C., FITZGERALD M., SEE L.H., TANG M., PORCEL B.M.,
                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>ئ</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCR6 OR CKRX.
HOMO SAPIENS (HUMAN).
EUKARYOTA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
                                                                                                                                                          HOMO SAPIENS (HUMAN).
EUKARYOTA: METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
                                                                                                                                                                                                                                                                                                            Length 333;
                                                                                                                                                                                                                                                                                                           Score 1375; DB 4; Length 33
Pred. No. 2.75e-187;
79; Mismatches 51; Indels
                      11 YERHFFHRHLLMHLGRYIPFLDSEKLE-RTSSVSPSTAEPELS 352
         315 YLSMFFRKYITKRFCKQCPVFYRETVDGVTSTNTPSTAEQEVS 357
                                                                                                  CREATED)
LAST SEQUENCE UPDATE)
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LAST ANNOTATION UPDATE)
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04,
06,
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Best Local Similarity 54.9%;
Matches 169; Conservative
                                                                                                                      01-JUN-1998 (TREMBLREL. OCCR5 RECEPTOR (FRAGMENT). CCR5.
                                                                              PRELIMINARY;
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01-JUL-1997 (TREMBLREL.
01-JUN-1998 (TREMBLREL.
CCR6.
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346 TAEPELSI 353
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                                                                                         014694;
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000421
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014694
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FLTLKMNISVLVLPLFIFTFLYVQMRKTL-RFREQR-YSLFKLVFAIMVVFLLMWAPYNI 256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AFFLSTFKEHFSLSDCKSSYNLDKSVHITKLIATTECCINPLLYAFLDGTFSKYLCRCFH 316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels 17; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                87
                                                                                                                                                                                                                                                                                                                                                                                                                                    83
   A., DESILVA
GARCIA D.,
                                                                                                                                                                                                                                                                                                                                                                                                28 CDKYDAQALSAQLVPSLCSAVFVIGVLDNLLVVLILVKYKGLKRVENIYLLNLAVSNLCF
                                                                                                                                                                                                                                                                                                                                                                                                                     24 CEKADTRALMAQFVPPLYSLVFTFGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLF
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                                                                                                                                          DRAGAN Y., GIACALONE J., PAE A., POWELL E., SOLINSKY K.A., DIAZ-PEREZ S., ZHOU X., YU Y., WATANABE K., DOGGETT N., GAR SAGRIPANTI J.L.; SUBMITTED (MAY-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
                                                                                                                                                                                                                                                                                                                            Length 344;
                                                                                                           ANSARI-LARI M.A., LIU X.-M., GORRELL J.H., GIBBS R.A.; SUBMITTED (AUG-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
                                                                                                                                                                                                                                                                                                                                                                 16;
                                                                                                                                                                                                                                                                                                                          ch 33.7%; Score 932; DB 4; I slmilarity 44.7%; Pred. No. 4.92e-118; 134; Conservative 73; Mismatches 76;
                                                                                                                                                                                                                                                                                                                                           Local Similarity
                                                                                          SEQUENCE FROM N.A.
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ch_pp protein - protein database search, using Smith-Waterman algorithm

Tue Dec 8 13:10:33 1998; MasPar time 11.07 Seconds 860.502 Million cell updates/sec Tabular output not generated. Run on:

>US-08-963-656-2 (1-355) from USO8963656.pep 2765 1 MTTSLDIVETFGTTSXYDDV......LERTSSVSPSTAEPELSIVF 355 Title:

Description: . Perfect Score: Sequence:

PAM 150 Gap 11 Scoring table:

74019 seqs, 26840295 residues Searched:

Post-processing: Minimum Match 0% Listing first 45 summaries

swiss-prot35 1:swissprot Database:

Mean 50.441; Variance 121.269; scale 0.416 Statistics: Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Pred. No.	0.00e+00	0.00e+00	0.00e+00	0.00e+00	7.41e-287	1.59e-267	1.80e-266	1.21e-232	3.04e-231	4.55e-231	5.10e-230	1.71e-229	5.71e-229	2.55e-229	1.28e-228	2.00e-224	1.30e-217	1.75e-203	8.83e-187	1.03e-176	4.02e-156	2.94e-155	4.33e-145
Description	C-C CHEMOKINE RECEPTOR	C-C CHEMOKINE RECEPTOR	C-C CHEMOKINE RECEPTOR	PROBABLE C-C CHEMOKINE	C-C CHEMOKINE RECEPTOR	PROBABLE G PROTEIN-COU	C-C CHEMOKINE RECEPTOR																
ΙD	CKR3_HUMAN	CKR3_CERAE	CKR3_MACMU	CKR3_MOUSE	CKR1_HUMAN	CKR1_MACMU	CKR1_MOUSE	CKR5_MACMU	CKR5_CERAE	CKR5_PAPHA	CKR5_RAT	CKR5_GORGO	CKR5_PANTR	CKR5_MOUSE	CKR5_HUMAN	CKR2_MOUSE	CKRV_MOUSE	CKR2_HUMAN	CKR4_HUMAN	CKR4_MOUSE	CKR8_HUMAN	GPRD_RAT	CKR8_MOUSE
88	٦	-	-	н	-	7	-	П	П	7	ч	7	Н			~	-	Н	Н	-	-	-	Т
Length	355	355	355	359	355	355	355	352	352	352	354	352	352	354	352	373	356	374	360	360	355	354	353
Query Match	99.4	91.8	91.2	70.7	66.1	62.1	61.9	54.9	54.6	54.6	54.4	54.3	54.2	54.2	54.1	m	٠.	٠.	45.4	43.3	39.0	38.8	36.7
Score	2748	2539	2521	1954	1828	1718	1712	1519	1511	1510	1504	1501	1498	1500	1496	1472	1433	1352	1256	1198	1079	1074	1015
Result No.	-	7	ю	4	S	9	7	80	σ	10	11	12	13	14	15	16	17	18	19	20	21	22	23

1.53e-143	4.90e-119	4.97e-111	4.01e-107	2.00e-105	2.00e-105	1.03e-102	8.26e-98	8.26e-98	5.78e-97	3.92e-97	5.78e-97	1.26e-96	4.03e-96	4.03e-96	1.91e-95	1.91e-95	4.26e-94	6.28e-94	9.26e-94	1.37e-93	2.97e-93
PROBABLE G PROTEIN-COU	C-C CHEMOKINE RECEPTOR	C-C CHEMOKINE RECEPTOR	PROBABLE G PROTEIN-COU	PROBABLE G PROTEIN-COU	G-PROTEIN COUPLED RECE	C-C CHEMOKINE RECEPTOR	HIGH AFFINITY INTERLEU	C-X-C CHEMOKINE RECEPT	HIGH AFFINITY INTERLEU	G PROTEIN-COUPLED RECE	HIGH AFFINITY INTERLEU	G PROTEIN-COUPLED RECE	C-X-C CHEMOKINE RECEPT	C-X-C CHEMOKINE RECEPT							
GPRD_HUMAN	CKR6_HUMAN	CKR7_HUMAN	GC96_HUMAN	GPR5_HUMAN	VQ3L_CAPVK	CKR7_MOUSE	IL8B_HUMAN	CCR3_HUMAN	IL8A_GORGO	IL8B_PANTR	IL8B_MACMU	IL8B_BOVIN	IL8A_RAT	IL8A_PANTR	IL8A_HUMAN	IL8B_GORGO	BONZ_HUMAN	IL8A_RABIT	BONZ_CERAE	CCR4_HUMAN	CCR4 PAPAN
П	-	۲	ч	Н	Н	Н	н	Н	-	Н	Н	-1	, -	-	ч	~	Н	ч	٦	7	-
355	374	378	357	333	381	378	360	368	350	353	353	360	349	350	350	353	342	355	342	352	352
36.4	31.2	29.5	28.7	28.3	28.3	27.7	26.7	26.7	26.5	26.5	26.5	26.4	26.3	26.3	26.2	26.2	25.9	25.9	25.8	25.8	25.7
1006	863	816	793	783	783	167	738	738	733	734	733	731	728	728	724	724	716	715	714	713	711
24	25	56	27	28	53	30	31	32	33	34	32	36	37	38	36	40	41	42	43	44	45

ALIGNMENTS

US-08-963-656-2.rsp

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Best Loca
Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MITSLDIVETFGTISYYDDVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILI 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

SUBLITED (JUL-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.

-!- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO EOTAXIN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 41 IFVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERTKHLDLVMLVTEVIAYSHCCMNPVI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TLCSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241 IFVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMNPVI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           YAFVGERFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF 355
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MONKEY) (GRIVET).
VERTEBRATA; TETRAPODA; MAMMALIA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-JUL-1998 (REL. 36, CREATED)
15-JUL-1998 (REL. 36, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
C-C CHEMONINE RECEPTOR TYPE 3 (C-C CKR-3) (CC-CKR-3).
                                                                                                                                                                                                                                                                                                                                                                                                                                                              3; DB 1; Length 355;
0.00e+00;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1; Indels
                                                                                                                                                                                                                                                                        EXTRACELLULAR (POTENTIAL).

S (POTENTIAL).

CYTOPLASMIC (POTENTIAL).

EXTRACELLULAR (POTENTIAL).

7 (POTENTIAL).

CYTOPLASMIC (POTENTIAL).

CYTOPLASMIC (POTENTIAL).

SYSIMILARITY.

S -> T (IN REF. 4).
                                                                                                                                                                         CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
4 (POTENTIAL).
                                                                                                                                            EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                              -> T (IN REF. 4).
EB145247 CRC32;
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1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           355 AA
                                                                                                                                                             (POTENTIAL)
                                                                                                                               TRANSMEMBRANE
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 2748;
                                                                                                                 PROTEIN_RECEPTOR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EUKARYOTA: METAZOA; CHORDATA; "EUTHERIA; PRIMATES."
                                                                                                                                                                                                                                                                                                                                                                                                                                 MW:
                                                                                                                             RECEPTOR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              99.48;
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                                                                                                                                                                                                                                                                                                                                                                                                                               41043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity 99.4%;
les 353; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STANDARD;
                                                                                                                                                 GCRDB; GCR_0988; --
GCRDB; GCR_1931; --
GCRDB; GCR_1934; --
GCRDB; GCR_1993; --
GCRDB; GCR_2529; --
MIM; 601268;
                                                                                                                                                                                                                                                                                                                                                                                                                              355 AA;
                                                                                                          PROSITE; PS00237;
G-PROTEIN COUPLED
 AF026535;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CKR3_CERAE
P56492;
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TRANSMEM
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TRANSMEM
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TRANSMEM
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DISULFID
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TRANSMEM
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NOODRAK KARAKAA KARAKA KARAKAA KARAKAA KARAKAA KARAKAA KARAKAA KARAKAA KARAKAA KARAKAA
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KYRRLRIMTNIYLLNLAISDLLFLFTLPFWIHYVREHNWVFSHGMCKVLSGFYHTGLYSE 120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IFVIMAVFFIFWTPYNVAILISTYQSILFGLDCERSKHVDLVVLVTEVIAYSHCCVNPVI 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
 A SIGNAL BY
                                                 RECEPTORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MTTSLYTVETFGPTSYDDDMGLLCEKADVGALIAQFVPPLYSLVFTVGLLGNVVVVMILI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TLCSAIYPQDTVYSWRHFHTLKMT1LCLALPLLVMA.ICYTG11KTLLKCPSKKKYKA1RL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           YAFVGERFRKYLRHFFHRHVLMHLGRYIPFLPSEKLERTSSVSPSTAEPELCIVF 355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MACACA MULATTA (RHESUS MACAQUE).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
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15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
C-C CHEMOKINE RECEPTOR TYPE 3 (C-C CKR-3), (CC-CKR-3),
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 355;
         INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL.
-!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROFEIN.
-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED EMBL; V13775; E1191907; -.
                                                                                                                                                 CYTOPLASMIC (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
EXTRACELLUAR (POTENTIAL).
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
EXTRACELLUAR (POTENTIAL).
EXTRACELLUAR (POTENTIAL).
5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
8 SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14; Indels
MCP-3, MCP-4 AND RANTES AND SUBSEQUENTLY TRANSDUCES INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL.
                                                                                                                    TRANSMEMBRANE.
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      [2]
SEQUENCE FROM N.A.
SOL N., TREBOUTE C., GOMAS E., FERCHAL F., ALIZON M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HAUER D.A., MARGULIES B.J., CLEMENTS J.E.;
SUBMITTED (AUG-1997) TO EMBL/GENBANK/DDBJ DATA BANKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 2539; DB 1;
Pred. No. 0.00e+00;
16; Mismatches 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ā
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                                                                                                    PROTEIN_RECEPTOR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-JUL-1998 (REL. 36, CREATED)
15-JUL-1998 (REL. 36, LAST SEQU
15-JUL-1998 (REL. 36, LAST ANNC
                                                                                                                                                                                                                                                                                                                                                                                                                         MW;
                                                                                 GCRDB; GCR_2422; -
PROSITE; PS00237; G_PROTEIN_
G-PROTEIN COUPLED RECEPTOR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          y Match
Local Similarity 91.5%;
hes 325; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                         40830
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11093
12093
12093
1305
1833
1833
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                                                                                                                                                                                                                                                                                                                                                                                               106
355 /
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CKR3_MACMU
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TRANSMEM
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TRANSMEM
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DOMAIN
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SUTHERIA; RODENTIA
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TRANSMEM
DOMAIN
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TRANSMEM
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PS1678;
01-0CT-1996 (REL. 34, CREATED)
01-0CT-1996 (REL. 34, LAST SEOUGNCE UPDATE)
01-0CY-1997 (REL. 35, LAST ANNOTATION UPDATE)
PROBABLE C-C CHEMONIE. RECEPTOR TYPE 3 (C-C CKR-3) (CC-CKR-3)
(MACROPHAGE INFLAMMATORY PROTEIN-1 ALPHA RECEPTOR-LIKE 2) (MIP-1 ALPHA
                                                                                                                                                                                                                                                                                                                                                                                KYRRLRIMINIYLLNLAISDLLFLFTLPFWIHYVRERNWVFSHGMCKVLSGFYHTGLYSE 120
                                                                                                                                                                                                                                                                                                                                                                                                           IFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYGTEKLFPK 180
                                                                                                                                                                                                                                                                                                                                                                                                                                              TLCSAIYPQDTVYSWRHFHTLKMTILCLALPLLVMAICYTGIIKTLLRCPSKKKYKAIRL 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241 IFVIMAVFIFWIPYNVAILISTYQSVLFGLDCERSKHLDLFVLATEVIAYSHCCVNPVI 300
                                                                                                                                                                                                                                                                                                                                             1 MITSLDTVETFGPISYDDDMGLLCEKADVGALIAQFVPPLYSLVFMVGLLGNVVVVMILI 60
                                                                                                                                                                                                                                                                                                                   Gaps
                  -!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-!- SIMILARITY: BELONGY TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
EMBL; AF017283; G2407219; -.
           EOTAXIN,
SIGNAL B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301 YAFVGERFRKYLRHFFHRHVLMHLGKYIPFLPSEKLERTSSVSPSTAEPELSIVF 355
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MUS MUSCULUS (MOUSE).
EUKARYOTA: METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
                                                                                                                                                                                                                                                                                                Length 355;
IITTED (JUL-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
FUNCTION: RECEPTOR FOR A C-C TYPE GHEMKINE. BINDS TO
MCP-3, MCP-4 AND RAWIES AND SUBSEQUENTLY TRANSDUCES A
INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL.
                                                                                                                                                                                                                                                                                                                  16; Indels
                                                                                                                                                                                                            6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
BY SIMILARITY.
K -> E (IN REF. 2).
K -> R (IN REF. 2).
W; A839CACE CRC32;
                                                                                                                   1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
4 (POTENTIAL).
                                                                   GCRDB; ALS...,
GCRDB; GCR_2469; -.
GCRDB; GCR_2469; -.
PROSITE; PS00237; G_PROTEIN_RECEPTOR; I.
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE.
34 EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                          EXTRACELLULAR (POTENTIAL)
5 (POTENTIAL)
                                                                                                                                                                                           5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                               Score 2521; DB 1;
Pred. No. 0.00e+00;
                                                                                                                                                                                                                                                                                                                 17; Mismatches
                                                                                                                                                                                                                                                                             40805 MW;
                                                                                                                                                                                                                                                                                              91.2%;
larity 90.7%;
Conservative
                                                                                                                             72
93
107
129
                                                                                                                                                                                                                                                                             55 AA;
                                                                                                                                                                                                                                                                                                       Local Similarity
les 322; Consei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CMKBR3 OR CMKBR1L2
                                                                                                                             DOMAIN
TRANSMEM
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TRANSMEM
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TRANSMEM
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IMTNIYLENLAISDLLELETVPEWIHYVLWNEWGFGHYMCKMLSGFYYLALYSEIFFIL 130
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VFFIFWTPYNLVLLFSAFHRTFLETSCEQSKHLDLAMQVTEVIAYTHCCVNPVIYAFVGE 310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VESFETTPYEYEWAPP-CEKVRIKELGSWLLPPLYSLVFIIGLLGNMMVVLILIKYRKLQ 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAO J.-L., MURPHY P.M.;
J. BIOL. CHEM. 270:17494-17501(1995).
-!- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO EOTAXIN,
MCP-3, MCP-4 AND RANTES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY
INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                  -!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-!- TISSUE SPECIFICITY: DETECTED IN SKELETAL MUSCLE AND IN TRACE
AMOUNTS IN LEUKOCYTES.
-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
EMBL; U28677; G1109784; -.
EMBL; U28406; G1203801; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5
                                                                  GERARD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 359;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
EXTRACELLUIAR (POTENTIAL).
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
EXTRACELLUIAR (POTENTIAL).
5 (POTENTIAL).
5 (POTENTIAL).
6 (POTENTIAL).
6 (POTENTIAL).
6 (POTENTIAL).
6 (POTENTIAL).
6 (POTENTIAL).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
BY SIMILARITY.
R -> S (IN REF. 2).
V; 3D2A9FOD CRC32;
                                                                  ٥.
                                                                  M.E., LUSTER A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 1954; DB 1;
Pred. No. 0.00e+00;
52; Mismatches 50
                                                                                                                                                                                                                                                                                                                                                                                                                                            GCRDB, GCR_1673; -. GCRDB, GCR_1673; -. GCRDB, GCR_1695; -. GCRDB, GCR_104616; CMKBR1L2.
PROSITE; PS00237; G_PROTEIN RECEPTOR; 1. G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE.
                                                     POST I.W., BOZIC C.R., ROTHENBERG GERARD C.:
                                                                                                        IMMUNOL. 155:5299-5305(1995)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MW.
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Local Similarity 70.2%;
nes 245; Conservative
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SEQUENCE FROM N.A.
                                                                                                                                                SEQUENCE FROM N.A
                                                                                                                                                                      STRAIN-129/SVJ;
MEDLINE; 95340546.
                                       MEDLINE; 96072806
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OR MCP-1 AND
INTRACELLULAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
TISSUE SPECIFICITY: WIDELY EXPRESSED IN DIFFERENT HEMATOPOIETIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GAO J.-L., KUHNS D., TIFFANY H.L., MCDERMOTT D., LI X., FRANCKE U., MURPHY P.M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                                                           01-OCT-1993 (REL. 27, CREATED)
01-OCT-1993 (REL. 27, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 26, LAST SEQUENCE UPDATE)
C-C CHEMOKINE RECEPTOR TYPE 1 (C-C CKR-1) (CC-CKR-1) (MACROPHAGE INFLAMMATORY PROTEIN-1 ALPHA RECEPTOR) (MIP-IALPHA-R) (MMI45) (LD78 RECEPTOR).
                                                                                                                                                                                                                                                                                  HOMO SAPIENS (HUMAN).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NOMURA H., NIELSEN B.W., MATSUSHIMA K.;
INT. IMMUNCL. 5:1239-1249(1993).
-!- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO M.
RANTES, MCP-3 AND, LESS EFFICIENTLY, TO MIP-1-BETA OR MC
SUBSEQUENTLY TRANSDUCES A SIGNAL BY INCREASING THE INTRA
CALCIUM IONS LEVEL. RESPONSIBLE FOR AFFECTING STEM CELL
PROLIFERATION.
307 RFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF 355
                                                                                                                                                                                                                                                                                                                                                                                                                     R., SCHALL T.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TRANSMEMBRANE; GLYCOPROTEIN. EXTRACELLULAR (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
EXTRACELULAR (POTENTIAL).
3 (POTENTIAL).
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CYTOPLASMIC (POTENTIAL).
4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (POTENTIAL).
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CYTOPLASMIC (POTENTIAL)
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-> D (IN REF. 3).
CDB9E09F CRC32;
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SEQUENCE FROM N.A.

S161416.

NEOTE K., DIGREGORIO D., MAK J.Y., HORUK

CELL 72:415-425(1993).
                                                                                       352
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                                                                                       PRT;
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EMBL; L10918; G292417; --
EMBL; D10925; G219863; --
PIR; A45177; A45177.
                                                                                       STANDARD;
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355 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
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MEDLINE; 94092629.
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G-PROTEIN COUPLED
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GCRDB; GCR_0573;
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                                                               LT 5
CKR1_HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MIM; 601159
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                                                               RESULT CONTROL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
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DB 1; Length 355

Score 1828;

66.18;

Query Match

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HAUER D.A., MARGULIES B.J., CLEMENTS J.E.;
SUBMITTED (AUG-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
-!- FUNCTION: RECEPTOR FOR A C.C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA,
RANTES, MCP-3 AND, LESS EFFICIENTLY, TO MIP-1-BETA OR MCP-1 AND
SUBSEQUENTLY TRANSDUCES A SIGNAL BY INCREASING THE INTRACELLULAR
CALCIUM IONS LEVEL. RESPONSIBLE FOR AFFECTING STEM CELL
                                                                                                                                                               119 SEIFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIIIWALAILASMPGLYFSKTQWEF 178
                                                                                                                                                                                                   179 THHTCSLHFPHESLREWKLFQALKLNLFGLVLPLLVMIICYTGIIKILLRRPNEKKSKAV 238
                                                                                                                                                                                                                  59 LVQYKRLKNMTSIYLLNLAISDLLFLFTLPFWIDYKLKDDWVFGDAMCKILSGFYYTGLY 118
                                                                                                                                                                                                                                                      RLIFVIMIIFFLFWTPYNLTILISVFQDFLFTHECEQSRHLDLAVQVTEVIAYTHCCVNP 298
                                                      1 METP-NTTEDYDTTTEFDYGDATP-CQKVNERAFGAQLLPPLYSLVFVIGLVGNILVVLV 58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
EMBL. AF017282; G2407217; -.
PROSITE; PS00237; G_PROTEIN_RECEPTOR; 1.
PROSITE; PS00237; G_PROTEIN_RECEPTOR; 1.
                                                                                                                                                                                                                                                                                                         VIYAFVGERFRKYLRQLFHRRVAVHLVKWLPFLSVDRLERVSSTSPSTGEHELSAGF 355
                                                                                                                                                                                                                                                                                                                       MACACA MULATTA (RHESUS MACAQUE).
EUKARYOTA: METAZOA: CHORDATA: VERTEBRATA; TETRAPODA; MAMMALLA;
EUTHERIA: PRIMATES.
                                                                                                                                                                                                                                                                                                                                                                                                               15-JUL-1998 (REL. 36, CREATED)
15-JUL-1998 (REL. 36, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
C-C CHEMOKINE RECEPTOR TYPE 1 (C-C CKR-1) (CC-CKR-1).
             Indels
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EXTRACELLULAR (POTENTIAL).
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
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EXTRACELLULAR (POTENTIAL).
5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
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EXTRACELLULAR (POTENTIAL).
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CYTOPLASMIC (POTENTIAL).
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CYTOPLASMIC (POTENTIAL).
Pred. No. 7.41e-287;
68; Mismatches 61;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SIMILARITY.
9FC609E9 CRC32;
                                                                                                                                                                                                                                                                                                                                                                                        355 AA
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BY SIMILAR
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Best Local Similarity 62.7%;
Matches 224; Conservative
                                                                                                                                                                                                                                                                                                                                                                                          STANDARD;
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106
355 AA;
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                                                                                                                                                                                                                                                                                                                                                                           LT 6
CKR1_MACMU
P56482;
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DISULFID
SEQUENCE
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Matches
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J. BIOL. CHEM. 270:17494-17501(1995).
-!- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA,
-!- FUNCTION: RECEPTOR FOR A G-C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA,
RANTES, AND LESS EFFICIENTLY, TO MIP-1-BETA OR MCP-1 AND
SUBSEQUENTLY TRANSDUCES A SIGNAL BY INCREASING THE INTRACELLULAR
CALCIUM IONS LEVEL. RESPONSIBLE FOR AFFECTING STEM CELL
                                                                                                                                                                                        118
                                                                                                                                                                                                                                                SEIFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIIIWALAILASSPLMYFSKTQWNI 178
                                                                                                                                                                                                                                                                       179 VRHS-CNIHFPYESFQQWKLFQALKLNLFGLVLPLLVMIVCYTGIIKILLRRPNEKKSKA 237
                                                                                                                                                                                                                                                                                                                                                                      237
                                                                                                                                                                                                                                                                                                                                                                                                          VRLIFVIMIIFFLFWTPYNLTELISVFQEFLFTHLCEQNRQLDLAMEVTEVIANMHCCVN 297
                                                                                                                                                                                                                                                                                                                                                                                                                                38 IRLIEVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERTKHLDLVMLVTEVIAYSHCCMN 297
                                                                                       58
                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PVIYAFAGERFRKYLRQLFHRRVAVHLVKWLPFLSGDRLERVSSTSPSTGEHELSAGF 355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -:- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-:- TISSUE SPECIFICITY: DETECTED IN THE HEART, SPLEEN, LUNG,
PERITONEAL EXUDATE CELLS AND LEUKOCYTES.
-:- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
EMBL: U29678; G1109786; -.
EMBL: U29404; G881548; -.
                                                                                                                                                                                                                                                                                                                                                      1 METP-NTTEDYDMITEFDYGDATP-CHKVNERAILAQLLPPLYSLVFVIGVVGNLLVVLV
                                                                                                                                                                   LVQYKRLKNMTNIYLLNLAISDLLFLFTLPFLIYYKSTDDWIFGDAMCKILSGFYYTGLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-0CT'1996 (REL: 34, CREATED)
01-0CT-1996 (REL. 34, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
C-C CHEMOKINE RECEPTOR TYPE 1 (C-C CREAT) (CCR-1) (CCR-1)
(MACROPHAGE INFLAMMATORY PROTEIN-1 ALPHA RECEPTOR) (MIP-1ALPHA-R)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Z.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MUS MUSCULUS (MOUSE).
EUKARYOTA: METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ROTHENBERG M.E., LUSTER A.D., GERARD
      Length 355;
                                               69; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EXTRACELLULAR (POTENTIAL).
    Score 1718; DB 1;
Pred. No. 1.59e-267;
68; Mismatches 69;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRAIN=129/SV; TISSUE-PERITONEAL MACROPHAGE;
MEDLINE; 96072806.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 355 AA
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                          60.1%;
Query Match 62.1%;
Best Local Similarity 60.1%;
Matches 215; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           POST T.W., BOZIC C.R., GERARD C.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EUTHERIA; RODENTIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             [1]
SEQUENCE FROM N.A.
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MEDLINE; 95340546.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CKR1_MOUSE
P51675;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (RANTES-R)
                                                                                                                                                                 59
                                                                                                                                                                                                                                                119
                                                                                                                                                                                                                                                                                                                                                                    178
                                                                                                                                                                                                                                                                                                                                                                                                            238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          298
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RESULT

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60 IKYRRLRIMTNIYLLNLAISDLLFLVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYS 119
 MQHRRLQSMTSIYLFNLAVSDLVFLFTLPFWIDYKLKDDWIFGDAMCKLLSGFYYLGLYS 119
 59
 59
 LT 8
CKR5_MACMU STANDARD: PRT; 352 AA.
P79436; 002746;
01-NOV-1997 (REL. 35, CREATED)
01-NOV-1997 (REL. 35, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
C-C CHEMOKINE RECEPTOR TYPE 5 (C-C CKR-5) (CCR-5) (CCR5).
 Gaps
 EIFFIILLTIDRYLAIVHAVFALRARTVTLGIITSIITWALAILASMPALYFFKAQWEFT
 180 HRTCSPHFPYKSLKQWKRFQALKLNLLGLILPLLVMIICYAGIIRILLRRPSEKKVKAVR
 LIFAITLLFFLLWTPYNLSVFVSAFQDVLFTNQCEQSKHLDLAMQVTEVIAYTHCCVNPI
 1 MEIS-DFTEAYPTTTEFDYGDSTPCQKTAVRAFGAGLLPPLYSLVFIIGVVGNVLMILVL
 MACACA MULATTA (RHESUS MACAQUE), MACACA FASCICULARIS (CRAB EATING MACAQUE) (CYNOMOLGUS MONKEY), AND MACACA NEMESTRINA (PIG-TAILED
 300 IYVFVGERFWKYLRQLFQRHVAIPLAKWLPFLSVDQLERTSSISPSTGEHELSAGF 355
 ij
 EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
 .;
2
 3
 Length 355;
 FARZAN M., PONATH P.D., SODROSKI J.;
CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
4 (POTENTIAL).
4 (POTENTIAL).
5 (POTENTIAL).
5 (POTENTIAL).
5 (POTENTIAL).
6 (POTENTIAL).
7 (POTENTIAL).
6 TARACELLULAR (POTENTIAL).
7 (POTENTIAL).
7 (POTENTIAL).
8 TARACELLULAR (POTENTIAL).
7 (POTENTIAL).
8 TARACELLULAR.
9 STANCELLULAR.

 Indels
 SPECIES-M.MULATTA; STRAIN-INDIAN MACAQUE;
BDLINE; 97213934.
CHEN Z., ZHOU P., HO D.D., LANDAU N.R., MARX P.A.;
J. VIROL. 71:2705-2714(1997).
 Score 1712; DB 1; I
Pred. No. 1.80e-266;
84; Mismatches 64;
 MARCON E., CHOE H., MARTIN K.A.,
NEWMAN W., GERARD N., GERARD C.,
J. VIROL. 71:2522-2527(1997).
 ₹
 61.9%;
llarity 57.9%;
Conservative
 Local Similarity
les 206; Conser
 AA;
 EUTHERIA; PRIMATES
 [1]
SEQUENCE FROM N.A.
 SPECIES-M.MULATTA;
MEDLINE; 97184592.
 SEQUENCE FROM N.A.
 240
265
282
306
106
555
 61
65
92
108
130
147
172
198
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SEQUENCE FROM N.A.
 GCRDB; GCR_2465; -GCRDB; GCR_2466; -PROSITE; PS00237;
 TISSUE=KIDNE
 CKR5_CERAE
P56493;
 VARIANT
SEQUENCE
 DOMAIN
TRANSMEM
 DOMAIN
TRANSMEM
 FRANSMEM
 RANSMEM
 Query Match
 RANSMEM
 RANSMEM
 RANSMEM
 /ARIANT
 DOMAIN
 DOMAIN
 OMAIN
 DOMAIN
 DOMAIN
 CMKBR5
 261
 316
 320
 257
 Matches
 RESULT
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 6
 EDINGER A.L., AMEDEE A., MILLER K., DORANZ B.J., ENDRES M.,
SHARRON M., SAMSON M., LU Z.H., CLEMENTS J.E., MURPHEY-CORB M.,
PEIPER S.C., PARMENTIER M., BRODER C.C., DOMS R.W.;
PROC. NATL. ACAB. SCI. US.A. 94 44005-4010(1997).
-!- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA,
MIP-1-BETA AND RANTES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY
INCREASING THE INTRACELLULAR CALCIUM IONS LEVEE. MAY PLAY A ROLE
IN THE CONTROL OF GRANULOCYTIC LINEAGE PROLIFERATION OR
 201
 KMVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLL 256
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALK 138
 ARTVIFGVVISVITWVVAVFASLPGIIFTRSQREGLHYT-CSSHFPYSQ-YQFWKNFQTL 196
 Gaps
 SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS., U77672; G1850350; -.
 ARTVIFGVITSIVIWGLAVLAALPEFIFYETE-ELFEETLCSALYPEDTVYS-WRHFHIL
 COKINVKQIAARLLPPLYSLVFIFGFVGNILVVLILINCKRLKSMTDIYLLNLAISDLLF
 9.
 Length 352;
 84; Mismatches 56; Indels
 4 (POTENTIAL).
EXTRACELLUAR (POTENTIAL).
5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
6 (POTENTIAL).
 G_PROTEIN_RECEPTOR; 1.
RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN.
30 EXTRACELLULAR (POTENTIAL).
 6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
BY SIMILARITY.
POTENTIAL.
 2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
 CYTOPLASMIC (POTENTIAL).
 HAUER D.A., MARGULIES B.J., CLEMENTS J.E.;
SUBMITTED (APR-1997) TO EMBL/GENBANK/DDBJ DATA BANKS
 SEQUENCE FROM N.A.
SPECIES-M.MULATTA, M.FASCICULARIS, AND M.NEMESTRINA;
MEDLINE; 97268687.
 Score 1519; DB 1; I
Pred. No. 1.21e-232;
 -> I (IN REF. 3).
-> M (IN REF. 3).
9B6826EC CRC32;
 (POTENTIAL)
 40507 MW;
 54.9%;
llarity 55.5%;
Conservative
 DIFFERENTIATION.
 241
292
352 AA;
 Local Similarity
es 186; Conser
SEQUENCE FROM N.A. SPECIES-M.MULATTA;
 DOMAIN
TRANSMEM
 TRANSMEM
DOMAIN
 Query Match
Best Local S
Matches 18
 DOMAIN
TRANSMEM
 DOMAIN
TRANSMEM
 CONFLICT
SEQUENCE
 FRANSMEM
 TRANSMEM
 TRANSMEM
 DISULFID
 CARBOHYD
 DOMAIN
 DOMAIN
 DOMAIN
 DOMAIN
 80
 84
 139
 144
 197
 202
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MEDLINE; 98001387.

KUHMANN S.E., PLATT E.J., KOZAK S.L., KABAT D.;

J. VIROL, 71:842-8656(1997).

-:- FUNCION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA, MIP-1-BETA AND RANTES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY INCREASING THE INTRACELLULAR CALCIOM IONS LEVEL. MAY PLAY A ROLE IN THE CONTROL OF GRANULOCYTIC LINEAGE PROLIFERATION OR
LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH 315
 TRANSMEMBRANE; GLYCOPROTEIN; POLYMORPHISM EXTRACELLULAR (POTENTIAL).
 80 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALK 138
 139 ARTVTFGVVTSVITWVVAVFASLPRIIFTRSQREGLHYT-CSSHFPYSQ-YQFWKNFQTL 196
 20 CQKINVKQIAARLLPPLYSLVFIFGFVGNILVVLJLINCKRLKSMTDIYLLNLAISDLLF 79
 C-C CHEMOKINE RECEPTOR TYPE 5 (C-C CKR-5) (CC-CKR-5) (CCR-5) (CCR5).
 Gaps
 -:- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-:- SIMILARITY: BELDNGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
EMBL: U83324; G2347108; -.
EMBL: U83325; G2347110; -.
 CERCOPITHECUS AETHIOPS (GREEN MONKEY) (GRIVET).
EUKARXOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
 Length 352;
 Indels
 3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
4 (POTENTIAL).
EXTRACELLUAR (POTENTIAL).
5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
 6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
 2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
 1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
 7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
 58;
 Score 1511; DB 1;
Pred. No. 3.04e-231;
 9CA7E235 CRC32;
 CREATED)
LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
 : ::: : ::: | ||:||| : ||:|| :|:|
LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 352 AA.
 84; Mismatches
 BY SIMILARITY.
N -> Y.
 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV
 PROSITE; PS00237; G_PROTEIN_RECEPTOR; 1
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRAI
 PRT;
 40561 MW;
 54.6%;
 Conservative
 STANDARD;
 15-JUL-1998 (REL. 36,
15-JUL-1998 (REL. 36,
15-JUL-1998 (REL. 36,
 352 AA;
 Local Similarity
Les 186; Conser
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 BENTON P.A., TIMANUS D.K., SHEARER M.H., LEE D.R., KENNEDY R.C.; SUBMITTED (NOV-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
-!- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA, MIP-1-BETA AND RANTES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL. MAY PLAY A ROLE IN THE CONTROL OF GRANULOCYTIC LINEAGE PROLIFERATION OR
 315
 KIVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLL 256
 rario hamadryas (hamadryas baboon), and papio anubis (olive baboon).
Eutabrota; metazoa; chordata; vertebrata; tetrapoda; mammalia;
Euthbria; primates.
 15-JUL-1998 (REL. 36, CREATED)
15-JUL-1998 (REL. 36, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
C-C CHEMONINE RECEPTOR TYPE 5 (C-C CKR-5) (CC-CKR-5) (CCR-5).
 -:- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-:- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
EMBL; AF005658; G2245610; -.
EMBL; AF003452; G2564676; -.
GCRDB; GCR_1373; -.
GCRDB; GCR_1373; -.
 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH
 Ξ.
 EDINGER A.L., AMEDEE A., MILLER K., DORANZ B.J., ENDRES M., SHARRON M., SAMSON M., LU Z.H., CLEMENTS J.E., MURPHEY-CORB PETERE S.C., PARMENTIER M., BRODER C.C., DOMS R.W.; PROC. NATL. ACAD. SCI. U.S.A. 94:4005-4010(1997).
 TRANSMEMBRANE; GLYCOPROTEIN.
 EXTRACELLULAR (POTENTIAL).
 CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
EXTRACELULAR (POTENTIAL).
3 (POTENTIAL)
 EXTRACELLULAR (POTENTIAL)
5 (POTENTIAL)
 EXTRACELLULAR (POTENTIAL)
 (POTENTIAL).
 (POTENTIAL).
 (POTENTIAL)
 316 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQETSVGF 352
 : ::: : ::: | ||:||| : ||:| | : |
LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSIVF 355
 86F2AA2E CRC32;
 Ş
 SIMILARITY.
 (POTENTIAL).
 (POTENTIAL)
 352
 CYTOPLASMIC
6 (POTENTIAL
 CYTOPLASMIC
 CYTOPLASMIC
 PROSITE; PS00237; G_PROTEIN_RECEPTOR; 1. G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRAI
 PRT;
¥.;
 40489
 STANDARD;
 30
58
68
89
102
 141
166
198
218
235
260
 301
352
178
 SEQUENCE FROM N.A.
SPECIES-P.HAMADRYAS;
MEDLINE; 97268687.
 DIFFERENTIATION
 101
268
352 AA;
 SEOUENCE FROM N.A.
 SPECIES-P. ANUBIS
 59
69
90
103
142
142
 10
CKRS_PAPHA
P56441;
 DOMAIN
TRANSMEM
 DOMAIN
TRANSMEM
 DOMAIN
TRANSMEM
 DISULFID
CARBOHYD
 TRANSMEM
 TRANSMEM
 TRANSMEM
 TRANSMEM
 SEQUENCE
 DOMAIN
 DOMAIN
 DOMAIN
 202
 320
 144
 197
 257
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Length 352;

DB 1;

Score 1510;

54.68;

Query Match

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6
 -!- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA, MIP-1-BETA AND RANTES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL.
-!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
EMBL; Y12009; E309267; -- GCRDB; GCR_1470; --
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALK 138
 ARTVTFGVVTSVITWVVAVFASLPGIIFTRSQREGLHYT-CSSHFPYSQ-YQFWKNFQTL 196
 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH 315
 |:::| : || |:| :::|| | || || :::|
LSSYQSILFG-NDCERTKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH 319
 CQKINVKQIAARLLPPLYSLVFIFGFVGNILVVLILINCKRLKSMTDIYLLNLAISDLLF 79
 Gaps
 01-NOV-1997 (REL. 35, CREATED)
01-NOV-1997 (REL. 35, LAST SEQUENCE UPDATE)
01-NOV-1997 (REL. 35, LAST ANNOTATION UPDATE)
C-C CHEMOKINE RECEPTOR TYPE 5 (C-C CKR-5) (CC-CK-5) (MIP-1
 24 CEKADTRALMAQEVPPLYSLVFTFGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLE
 KIVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLL
 STRAIN-WISTAR; TISSUE-BRAIN;
SPLEISO,, GOVEMALA N., BODDEKE H.W.G.M., SAUTER A., BERGER M.,
GEBICKE-BAERTER P.J.;
SUBMITTED (MAR-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
 RATTUS NORVEGICUS (RAT).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; RODENTIA.
 ..
م
 Indels
 1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
 GCKUB; GCK______..., GPROTEIN_RECEPTOR; 1.
G-PROTEI; PSOUDIST G_PROTEIN_RECEPTOR; 1.
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN.
I 32
FXTRACELLULAR (POTENTIAL).
 4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
 6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
7 (POTENTIAL).
 7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
BY SIMILARITY.
 . No. 4.55e-231;
Mismatches 56;
 POTENTIAL.
35165BF7 CRC32;
 320 LIMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV 350
 354 AA
 Pred.
85; M
 41030 MW;
larity 55.2%;
Conservative
 STANDARD;
 223200
2323200
2323200
2323200
330333
Best Local Similarity
Matches 185; Conser
 354 AA;
 SEQUENCE FROM N.A.
 221
238
263
 ALPHA RECEPTOR)
 T 11
CKR5_RAT
008556;
 DISULFID
 FRANSMEM
 RANSMEM
 PRANSMEM
 RANSMEM
 RANSMEM
 PRANSMEM
 PRANSMEM
 SEQUENCE
 DOMAIN
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 DOMAIN
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 20
 80
 84
 139
 144
 202
 257
 261
 316
 197
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 EDINGER A.L., AMEDEE A., MILLER K., DORANZ B.J., ENDRES M.,
SHARRON M., SAMSON M., LU Z.H., CLEMENTS J.E., MURPHEY-CORB M.,
PEIPER S.C., PARMENTIER M., BRODER C.C., DOMS R.W.;
PROC. NATL. ACAD. SCI. U.S.A. 94:4005-4010(1997).
-!- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA,
MIP-1-BETA AND RANTES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY
INCREASING THE INTRACELLULAR CALCIUM IONS LEVEE. MAY PLAY A ROLE
IN THE CONTROL OF GRANULOCYTIC LINEAGE PROLIFERATION OR
 260 TTFQEY-FGLNNCSSSNRLDQAMQVTETLGMTHCCLNPVIYAFVGEKFRNYLSVFFRKHI 318
 :::| || |:| :::|| || || :::|
262 SSYQSILFG-NDCERTKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRHL 320
 82 LLTLPFWAHYA-ANEWVFGNIMCKLFTGIYHIGYFGGIFFIILLTIDRYLAIVHAVFAIK 140
 141 ARIVNEGVITSVVIWVVAVFVSLPEIIFMRSQKEGSHYTCSPHFLH-IQYRFWKHFQTLK 199
 81
 Gaps
 15-JUL-1998 (REL. 36, CREATED)
15-JUL-1998 (REL. 36, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
C.C. CHEMOKINE RECEPTOR TYPE 5 (C-C CKR-5) (CC-CKR-5) (CCRS).
 -!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
EMBL; AF005659; G2245612; -.
 200 MVILSLILPLLVMVICYSGILNTLFRCRNEKKRHRAVRLIFAIMIVYFLFWTPYNIVLLL
 22 COKVNVKQIAAQLLPPLYSLVFIFGFVGNMMVFLILISCKKLKSMTDIYLFNLAISDLLF
 7;
 GORILLA GORILLA GORILLA (LOWLAND GORILLA).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
 Length 354;
 Score 1504; DB 1; Length 354
Pred. No. 5.10e-230;
83; Mismatches 62; Indels
 EMBL).

GCRDB, A.C. 1372; -.

GCRDB, GCR. 1372; -.

PROSITE: PS00237; G_PROTEIN_RECEPTOR; 1.

G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN.

30 EXTRACELLULAR (POTENTIAL).
 EXTRACELLULAR (POTENTIAL).
7 (POTENTIAL).
 EXTRACELLULAR (POTENTIAL).
 CYTOPLASMIC (POTENTIAL).
4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
 1 (POTENTIAL). CYTOPLASMIC (POTENTIAL).
 (POTENTIAL)
 352 AA
 (POTENTIAL).
 (POTENTIAL).
 5 (POTENTIAL).
CYTOPLASMIC (P
 321 LMHLGRYIPFLPSEKLERTSSV-SPSTAEPELS 352
 319 VKRFCKHCSIFQQVNPDRVSSVYTRSTGEQEVS 351
 PRT;
 54.48;
54.48;
 Best Local Similarity 54.4%;
Matches 181; Conservative
 STANDARD;
 30
58
68
68
102
1124
1141
1166
1198
2218
2218
2277
2277
 DIFFERENTIATION.
 SEQUENCE FROM N.A. MEDLINE; 97268687.
 CKR5_GORGO
P56439;
 DOMAIN
TRANSMEM
DOMAIN
TRANSMEM
 DOMAIN
TRANSMEM
 DOMAIN
TRANSMEM
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 TRANSMEM
 PRANSMEM
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 PRETET J.-L., ZERBIB A., GIRARD M., GUILLET J.-G., BUTOR C.;
AIDS RES. HUM. RETROVERGES 13:1583-1587(1997).
-!- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE.
MIP-1-BETA AND RANTES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY
 256
 ARTVIFGVVTSVIIWVVAVFASLPGIIFTRSOKEGLHYT-CSSHFPYSQ-YQFWKNFQTL 196
 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH 315
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALK 138
 201
 .
В
 83
 CERS_PANTR STANDARD: PRT; 352 AA.
P56440; 002778;
15-JUL-1998 (REL. 36, CREATED)
15-JUL-1998 (REL. 36, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
C-C CHEMOKINE RECEPTOR TYPE 5 (C-C CKR-5) (CCR-5) (CCR5).
 Gaps
 SEQUENCE FROM N.A.
MEDLINE; 98022612.
ZHANG L., CARRUTHERS C.D., HE T., HUANG Y., CAO Y., WANG G., HAHN
 KIVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLL
 20 COKTINVKQIAARLLPPLYSLVFIFGFVGNMLVILILIINCKRLKSMTDIYLENLAISDLFF
 EDINGER A.L., AMEDEE A., MILLER K., DORANZ B.J., ENDRES M., SHARRON M., SAMSON M., LL Z.H., CLEMENTS J.E., MURPHEY-CORB M., PEIBER S.C., PARMENTIER M., BRODER C.C., DOMS R.W.; PROC. NAIL. ACAD. SCII. U.S.A. 94:4005-4010(1997).
 6
 PAN TROGLODYTES (CHIMPANZEE).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALLA;
EUTHERIA; PRIMATES.
 Length 352;
 Indels
 CYTOPLASMIC (POTENTIAL).
BY SIMILARITY.
 BANKS
 Score 1501; DB 1;
Pred. No. 1.71e-229;
 ZIMMERMAN P.A., BUCKLER-WHITE A., ALKHATIB G.;
SUBMITTED (MAR-1997) TO EMBL/GENBANK/DDBJ DATA
 ZACHAROVA V., ZACHAR V., GOUSTIN A.S.;
AIDS RES. HUM. RETROVIRUSES 13:1159-1161(1997).
 HO D.D.;
AIDS RES. HUM. RETROVIRUSES 13:1357-1366(1997)
 0AD97B12 CRC32;
 Mismatches
 316 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV 350
 320 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 88;
352 CY
178 BY
40515 MW;
 54.3%;
larity 54.6%;
Conservative
 302 3
101 1
352 AA;
 Local Similarity
es 183; Conser
 FROM N.A.
98090115.
 SECUENCE FROM N.A. MEDLINE; 97268687.
 SEQUENCE FROM N.A. MEDLINE; 97426118.
 SEQUENCE FROM N.A.
 SEQUENCE FROM
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 Query Match
 MEDLINE;
 Best Loca
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 139
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 STRAIN-129
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 FRANSMEM
 GCRDB;
 6
 ARTVIFGVVISVITWVVAVFASLPGIIFTRSQKEGLHYT-CSSHFPYSQ-YQFWKNFQTL 196
 197 KIVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLL 256
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALK 138
 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH 315
 INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL. MAY PLAY A ROLE IN THE CONTROL OF GRANULOCYTIC LINEAGE PROLIFERATION OR
 20 COKINVKQIAARLLPPLYSLVFIFGFVGNMLVILILINCKRLKSMTDIYLLNLAISDLFF 79
 CKR5_MOUSE STANDARD; PRT; 354 AA.
P51682; OG1867; P97405; 035313; P97308; 035891;
01-0CT-1996 (REL. 34, CREATED)
15-JUL-1998 (REL. 36, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
ALPHA RECEPTOR TYPE 5 (C-C CKR-5) (CC-CKR-5) (MIP-1)
ALPHA RECEPTOR)
 Gaps
 -!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
EMBL; AF005663; G2245620; -.
EMBL; U94329; G2141188; -.
 <u>ئ</u>
 Length 352;
 1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
5 (POTENTIAL).
5 (POTENTIAL).
6 (POTENTIAL).
6 (POTENTIAL).
6 (POTENTIAL).
6 (POTENTIAL).
6 (POTENTIAL).
 Indels
 PROSITE; PS00237; G_PROTEIN_RECEPTOR; 1.
G-PROTEIN COUPLED RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN
 EXTRACELLULAR (POTENTIAL).
 7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
BY SIMILARITY.
 Score 1498; DB 1; L
Pred. No. 5.71e-229;
87; Mismatches 56;
 -> S (IN REF. 1).
D6554684 CRC32;
 316 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV 350
 320 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 POTENTIAL.
 EMBL; U94329; G2145160; EMBL; D401542; G3305202; EMBL; U97666; G3230529; EMBL; AF011540; G2205198; GCRDB; GCR_134; GPROTEIN_RI
 40539 MW;
 Ouery Match
Best Local Similarity 54.6%;
Matches 183; Conservative
 DIFFERENTIATION.
 261
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352 AA;
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GUO B., KUNO K., HARADA A., MATSUSHIMA K.;
SUBMITTED (JAN-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.

- PUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA,
MIP-1-BETA AND RANTES AND GUSSEQUENTLY TRANSDUCES A SIGNAL BY
INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL.

- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.

- 1- TISSUE SPECIFICITY: DETECTED IN MONOCYTE/MACROPHAGE CELL LINES,
BUT NOT IN NONHEMATOPOLETIC CELL LINES.

- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.

REBL: U47036; G1237136; -..

REMBL: V68565; G1698716; -..

REMBL: V68565; G1698716; -..

REMBL: AF012970; G2444487; -..

REMBL: AF012972; G2444487; -..

REMBL: D83648; G1777330; -..
 G_PROTEIN_RECEPTOR; 1.

RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN; POLYMORPHISM.

32 EXTRACELLULAR (POTENTIAL).

60 I (POTENTIAL).

70 CYTOPLASMIC (POTENTIAL).

91 2 (POTENTIAL).

104 EXTRACELLULAR (POTENTIAL).
 MEDLINE; 97404635.
DORANZ B.J., LU Z.H., RUCKER J., ZHANG T.Y., SHARRON M., CEN Y.H.,
WANG Z.X., GUO H.H., DU J.G., ACCAVITII M.A., DOMS R.W., PEIPER S.C.;
J. VIROL. 71:6305-6314(1997).
 I., WELLS T.N.C., POWER C.A.;
 STRAIN-C57BL/6, AND NIH/SWISS; TISSUE-LIVER, KIDNEY, AND SPLEEN; MEDLINE; 98001387.
KUHMANN S.E., PLATT E.J., KOZAK S.L., KABAT D.;
 A.J., ISOU C.-L.,
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; RODENTIA.
 LIUPLASMIC (POTENTIAL).
4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
5 (POTENTIAL).
 KUZIEL W.A., BECK M.A., DAWSON T.C., MAEDA N., SUBMITTED (DEC-1996) TO EMBL/GENBANK/DDBJ DATA BANKS
 BORING L., GOSLING J., MONTECLARO F.S., LUSIS CHARO I.F.;
 JHMANN S.E., PLATT E.J., KOZAK S.L., KABAT. VIROL. 71:8642-8656(1997).
 SEQUENCE FROM N.A.
STRAIN-C57BL/6 X CBA, TISSUE-THYMUS,
MEDILINE, 96278910.
MEYER A. COYLE A.J., PROUDFOOT A.E..
J. BIOL. CHEM. 271:14445-14451(1996)
 BIOL. CHEM. 271:7551-7558(1996)
 SEQUENCE FROM N.A.
STRAIN=129/SVJ; TISSUE=SPLEEN;
MEDLINE; 96205938.
 GCRDB; GCR_1645; --
GCRDB; GCR_1656; --
GCRDB; GCR_1656; --
GCRDB; GCR_2449; --
GCRDB; GCR_2540; --
GCRDB; GCR_2554; --
MGD; MGI:107182; CMKBRS.
PROSITE; PS00237; G_PROTE
 32
60
70
70
104
1126
1143
1168
2200
2200
 SEQUENCE FROM N.A.
 SEQUENCE FROM N.A.
 SEQUENCE FROM N.A.
 SEQUENCE FROM N.A.
 GCR_1150;
 33
71
71
105
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 STRAIN-129/OLA;
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DISULFID CARBOHYD

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AF011509; G2305136;
 G2305144;
G2305146;
 SEQUENCE FROM N.A. MEDLINE; 96295970.
 AF011513;
AF011514;
 D.D.;
 EMBL;
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7.
 SSYQSILFG-NDCERTKHLDLVMLVTEVIAXSHCCMNPVIYAFVGERFRKYLRHFFHRHL 320
 LLTLPFWAHYA-ANEWIFGNIMCKVFTGVYHIGYFGGIFFIILLTIDRYLAIVHAVFALK 140
 141 VRTVNFGVITSVVTWVVAVFASLPEIIFTRSQKEGFHYT-CSPHFPHTQYHFWKSFQTLK 199
 WVILSLILPLLVMIICYSGILHTLFRCRNEKKRHRAVRLIFAIMIVYFLFWTPYNIVLLL 259
 260 TIFQEF-FGLNNCSSSNRLDQAMQATETLGMIHCCLNPVIYAFVGEKFRSYLSVFFRKHI 318
 22 CQKINVKQIAAQLLPPLYSLVFIFGFVGNMMVFLILISCKKLKSVTDIYLLNLAISDLLF 81
 Gaps
 CKRS_HUMAN STANDARD; PRT; 352 AA.
P51681; 014692; 014693; 014695; 014696; 014698; 014699; 01-0CT-1996 (REL. 34, CREATED)
01-0CT-1996 (REL. 34, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
C-C CHEMOKINE RECEPTOR TYPE 5 (C-C CKR-5) (CC-CKR-5) (CCR-5) (CHIV-1 FUSION CO-RECEPTOR)
 EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
 SAMSON M., LABBE O., MOLLEREAU C., VASSART G., PARMENTIER M.;
BIOCHEMISTRY 35:3362-3367(1996).
 Length 354;
 Score 1500; DB 1; Length 35 Pred. No. 2.55e-229; 83; Mismatches 62; Indels
 6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
 7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
BY SIMILARITY.
CYTOPLASMIC (POTENTIAL)
 7 -> L (IN REF. 2).
7 -> F (IN REF. 2).
7 -> Y (IN REF. 3).
7 -> S (IN REF. 1).
7 -> I (IN REF. 5).
6 ECD306A CRC32;
 321 LMHLGRYIPFLPSEKLERTSSV-SPSTAEPELS 352
 319 VKRFCKRCSIFQQDNPDRVSSVYTRSTGEHEVS 351
 POTENTIAL.
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 y Match 54.2%;
Local Similarity 54.4%;
hes 181; Conservative
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2237
2262
2279
3303
3354
111
62
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62
111
109
1185
1185
2318
337
 80
208
145
 HOMO SAPIENS (HUMAN)
 208
145
354 AA;
 SEQUENCE FROM N.A. MEDLINE; 96241590. SAMSON M., LABBE O.
 [2]
SEQUENCE FROM N.A.
 CONFLICT
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CMKBR5

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THE COUNTED OF GRANDLOCTIC LINEAGE PROLIFERATION ON DIFFERENTIATION.

-!- FUNCTION: ACTS AS AS CO-RECEPTOR WITH CD4 FOR PRIMARY NON-SYNCYTIUM-INDUCTION STRAINS (NEI) (MACROPHAGE TROPIC) OF HIV-1

VIRUS, IT PROMOTES ENV-MEDIATED FUSION OF THE VIRUS.

-!- SIBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.

-!- SIBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.

-!- SIBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.

-!- SIBCINCTION: OF THE VIRUS.

EMBL: X91492; E19247; --

REMBL: X91492; E19247; --

REMBL: U55626; G2104520; --

REMBL: AF011501; G2205118; --

REMBL: AF011501; G2205128; --

REMBL: AF011505; G2205128; --

REMBL: AF011505; G2205138; --

REMBL: AF011505; G2205130; --

REMBL: AF011505; G2205130; --

REMBL: AF011505; G2205130; --

REMBL: AF011505; G2205130; --

REMBL: AF011505; G2205134; --

REMBL: AF011508; G2205134; --

REMBL: AF011508; G2205134; --

REMBL: AF011508; G2205134; --

REMBL: AF011508; G2205134; --
 PAXTON W.A.;
NATURE 381:667-673(1996).
-!- FUNCTION: RECEPTOR FOR A C-C TYPE CEEMOKINE. BINDS TO MIP-1-ALPHA,
-!- FUNCTION: RECEPTOR FOR A C-C TYPE CEEMOKINE. BINDS TO MIP-1-ALPHA,
MIP-1-BETA AND RANTES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY
INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL. MAY PLAY A ROLE
IN THE CONTROL OF GRANULOCYTIC LINEAGE PROLIFERATION OR
 ZHANG L., CARRUTHERS C.D., HE T., HUANG Y., CAO Y., WANG G., HAHN B.,
MEDLINE; 96291862.
RAPORT C.J., GOSLING J., SCHWEICHART V.L., GRAY P.W., CHARO I.F.;
J. BIOL, CHEM. 271:17161-17166(1996).
 SEQUENCE FROM N.A.
MCCOMBIE W.R., WILSON R., CHEN E., GIBBS R., ZUO L., JOHNSON D.,
MCCOMBIE W.R., WILSON R., CHEN E., GIBBS R., MARDIS E., SCHUTZ K.,
GNOJ L., LA BASTIDE M., KAPLAN N., GRECO T., TOUGHAN J.,
MUZNY D., CHEN C.N., EVANS C., FITZGERALD M., SEE L.H., TANG M.,
PORCEL B.M., DRAGAN Y., GIACALONE J., PAE A., POWELL E.,
SOLINSKY K.A., DESILVA U., DIAZ-PEREZ S., ZHOU X., YU Y.,
WATANNBE M., DOGGETT N., GRACLA D., SAGKIPANTI J.L.;
SUBMITTED (MAY-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
 MEDLINE; 96260018.
DRAGIC T., LITWIN V., ALLAWAY G.P., MARTIN S.R., HUANG Y.,
NAGASHIMA K.A., CAYANAN C., MADDON P.J., KOUP R.A., MOORE J.P.,
 BURKHART M.,
 CHARACTERIZATION OF ITS HIV-1 RECEPTOR FUNCTION.
MEDLINE; 96260017.
DENG H., LIU R., ELLMBIER W., CHOE S., UNUTMAZ D., BURKHART DI MARZIO P., MARMON S., SUTTON R.E., HILL C.M., DAVIS C.B.
PEIPER S.C., SCHALL T.J., LITTMAN D.R., LANDAU N.R.;
NATURE 381:661-666(1996).
 COMBADIERE C., AHUJA S.K., TIFFANY H.L., MURPHY P.M.
J. LEUKOC. BIOL. 60:147-152(1996).
 [8] CHARACTERIZATION OF ITS HIV-1 RECEPTOR FUNCTION.
 SEQUENCE FROM N.A.
MEDLINE, 98001387.
KUHKANN S.E., PLATT E.J., KOZAK S.L., KABAT D.;
J. VIROL. 71:8642-8656(1997).
 AIDS RES. HUM. RETROVIRUSES 13:1357-1366(1997).
 SEQUENCE FROM N.A., AND POLYMORPHISMS.
MEDLINE; 98022612.
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Best Local Similarity 54.3%;
Matches 182; Conservative
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 TRANSMEMBRANE; GLYCOPROTEIN; POLYMORPHISM. EXTRACELLULAR (POTENTIAL).
 MWCCR5-1567).
TZCCR5-181A AND MWCCR5-107).
UGCCR5-145C).
 6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
 1 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
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EXTRACELLULAR (POTENTIAL)
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CYTOPLASMIC (POTENTIAL).
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CYTOPLASMIC '(POTENTIAL)
 ZCCR5-179
 ZWCCR5-7
 3 (POTENTIAL).
CYTOPLASMIC (PO
 SIMILARITY.
 BY SIMILA POTENTIAL
 G_PROTEIN_RECEPTOR;
RECEPTOR; TRANSMEMBR
 40524 MW;
 G2305184;
G2305188;
G2305188;
 G2305162;
G2305164;
 G2305180;
G2305182;
 G2305156;
G2305158;
 G2305168;
 G2305176;
 G2305178;
 G2305166;
 G2305174;
 G2305172;
 GCRDB; GCR_1923; -.
GCRDB; GCR_1927; -.
GCRDB; GCR_2116; -.
GCRDB; GCR_2454; -.
GCRDB; GCR_2497; -.
MIM; 601373; -.
 335
339
345
352 AA;
 PROSITE: PS00237;
G-PROTEIN COUPLED
 AF011522;
AF011523;
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Length 352;

DB 1;

Score 1496;

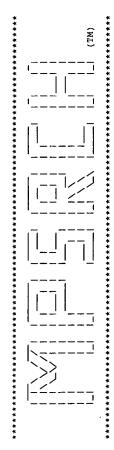
54.18;

Query Match

ö KIVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLL 256 24 CEKADTRALMAQFVPPLYSLVFTFGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLF 83 20 CQKINVKQIAARLEPPLYSLVFIFGFVGNMLVILLILINCKRLKSMTDIYLLNLAISDLFF 79 9; Gaps Indels Pred. No. 1.28e-228; 88; Mismatches 56; IAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV 350 

Search completed: Tue Dec 8 13:10:55 1998 Job time: 22 secs.

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protein - protein database search, using Smith-Waterman algorithm Tue Dec 8 13:19:33 1998; MasPar time 11.52 Seconds 498.610 Million cell updates/sec ch\_pp Run on:

not generated. Tabular output

>US-08-963-656-4 (1-355) from USO8963656.pep 2760 1 MTTSLDTVETFGTTSYXDDV......LERISSVSPSTAEPELSIVF Description: Perfect Score: Sequence:

PAM 150 Gap 11 Scoring table:

131922 segs, 16180660 residues Searched:

Minimum Match 0% Listing first 45 summaries Post-processing:

Database:

a-geneseq32 1:part1 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7 8:part8 9:part9 10:part10 11:part11 12:part12 13:part13 14:part14 15:part15 16:part16 17:part17 18:part18 19:part19 20:part20 21:part21 22:part22 23:part23 24:part24 25:part25 26:part26 27:part27 28:part28

Mean 34.811; Variance 169.172; scale 0.206

1. No. is the number of results predicted by chance to have a re greater than or equal to the score of the result being printed, is derived by analysis of the total score distribution. score and is Pred.

## SUMMARIES

| Pred. No.                | eota 2.88e-228      | tep 2.88e-228         | or 2.88e-228          | r 4.32e-228         | or 4.32e-228          | ne 6.57e-225          | or 3.89e-220          | to 1.32e-146          | NAN 1.32e-146         | NT 1.32e-146          | sce 4.07e-137         | ec 4.95e-117          | ep 6.81e-116          | 6.81e-116   | re 6.81e-116          | re 5.57e-116          | это 9.37е-115         | loa 2.23e-110         |
|--------------------------|---------------------|-----------------------|-----------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Description              | Human eosinophil ec | Human chemokine recep | CC-chemokine receptor | Human C-C chemokine | CC-chemokine receptor | Human CCKR3 chemokine | CC-chemokine receptor | C-C chemokine recepto | Human MIP-1 alpha/RAN | Human MIP-lalpha/RANT | Rat CC chemokine rece | Macaque chemokine rec | Human chemokine recep | Human CCR5. | Human CC chemokine re | Human CC chemokine re | Human G-protein chemo | Human monocyte chemoa |
| А                        | W31850              | W27124                | W03377                | W10100              | W03376                | W25943                | W03378                | R52749                | W26588                | W25751                | W29179                | W27125                | W27123                | W27407      | W23835                | W23834                | W07602                | R79166                |
| BB                       | 28                  | 24                    | 73                    | 23                  | 19                    | 56                    | 19                    | 11                    | 25                    | 24                    | 24                    | 24                    | 24                    | 27          | 53                    | 53                    | 20                    | 14                    |
| Query<br>Match Length DB | 355                 | 355                   | 355                   | 355                 | 355                   | 356                   | 355                   | 355                   | 355                   | 355                   | 355                   | 352                   | 352                   | 352         | 352                   | 371                   | 352                   | 360                   |
| Query<br>Match           | 100.0               | 100.0                 | 100.0                 | 99.9                | 99.9                  | 98.6                  | 96.7                  | 66.4                  | 66.4                  | 66.4                  | 62.5                  | 54.2                  | 53.8                  | 53.8        | 53.8                  | 53.8                  | 53.3                  | 51.5                  |
| Score                    | 2760                | 2760                  | 2760                  | 2758                | 2758                  | 2722                  | 2668                  | 1834                  | 1834                  | 1834                  | 1726                  | 1497                  | 1484                  | 1484        | 1484                  | 1485                  | 1471                  | 1421                  |
| Result<br>No.            | ٦                   | 7                     | ٣                     | 4                   | 2                     | 9                     | 7                     | 80                    | 6                     | 10                    | 11                    | 12                    | 13                    | 14          | 15                    | 16                    | 17                    | 18                    |

| 23e-1<br>28e-1        | - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 | 1.66e-79                                       | φ      | 7e-                   |                       | 1.45e-58              |                       | .76e-5               | 10                    | 1.49e - 55 | 1.49e-55             | e-                    | .58e-                 | 3.58e-51              | •                     | .58e-5   | 5.68e-50 | .68e-5 | .68e-5                | 5.68e-50 | .68e-5               | 1.85e-49 | 1.25e-49              |
|-----------------------|-----------------------------------------|------------------------------------------------|--------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|----------|--------|-----------------------|----------|----------------------|----------|-----------------------|
| monocyte<br>chemokine | - 22                                    | Human G-protein recep<br>Seven transmembrane r |        | Human chemokine recep | Partial sequence of s | Putative seven transm | Putative seven transm | Human dendritic cell | Epstein Barr virus in | a          | Inactive human CCR5. | Seven transmembrane r | Human IL-8 receptor f | Interleukin 8 recepto | Sequence in a low aff | be 2-GBP | : high   |        | Interleukin 8 recepto | G-protei | IL8-R type 1-GBP 130 | yte PF4  | Recombinant high affi |
| W35833<br>W26766      | R/9165                                  | W07618<br>R53748                               | W48087 | W26767                | R53745                | R53743                | R53744                | W48086               | R54079                | W27406     | W27408               | R53747                | R33420                | R80758                | R28273                | R70124   | R80951   | _      | R80756                | W19780   | R70123               | R68812   | R80953                |
| 26                    | 13                                      | 1 50                                           | 5      | 28                    | 11                    | 11                    | 11                    | 59                   | 10                    | 27         | 27                   | 1                     | 7                     | 15                    | 9                     | 14       | 15       | 12     | 15                    | 23       | 14                   | 12       | 15                    |
| 332                   | 360                                     | 355                                            | 356    | 344                   | 358                   | 410                   | 378                   | 365                  | 378                   | 184        | 215                  | 359                   | 355                   | 360                   | 360                   | 1064     | 350      | 350    | 350                   | 415      | 1060                 | 352      | 360                   |
| 51.5                  | 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 |                                                |        | ë.                    | σ.                    |                       | σ.                    | œ.                   | œ.                    | œ.         | æ                    | 7                     | ů.                    | ů.                    | 26.8                  | è.       | 26.3     | ė.     | 26.3                  | 26.3     | ė.                   | 26.1     | 26.1                  |
| 1421                  | 1238                                    | 1067                                           | 940    | 927                   | 825                   | 825                   | 822                   | 794                  | 962                   | 190        | 790                  | 765                   | 739                   | 739                   | 739                   | 739      | 725      | 725    | 725                   | 725      | 725                  | 719      | 721                   |
| 200                   | 222                                     | 23                                             | 25     | 56                    | 27                    | 28                    | 29                    | 30                   | 31                    | 32         | 33                   | 34                    | 35                    | 36                    | 37                    | 38       | 39       | 40     | 41                    | 42       | 43                   | 44       | 45                    |

## ALIGNMENTS

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Claim 5; Page 15; 51pp; English.

This is a human eosinophil eotaxin receptor. The 5099 base pair encoding this is a human eosinophil eotaxin receptor. The 5099 base pair encoding this sequence comprises a 1065 base pair open reading frame encoding this 555 amino acid eosinophil eotaxin receptor protein, flanked by a 5′ genomic DNA sequence and a 3′ terminator region. This novel eosinophil eotaxin receptor designated CC (KR3. Agents which bind to this eosinophil eotaxin receptor can be used for the treatment and prevention of atopic conditions such as allergic thinitis, dermatitis, conjunctivitis and bronchial asthma. Agents which block this eosinophil eotaxin receptor can be used to prevent viral infection in healthy individuals and slow or halt viral progression
 Human eosinophil eotaxin receptor protein CC CKR3.
Eosinophil eotaxin receptor; CC CKR3, human; treatment; dermatitis; atopic condition; allergic rhinitis; conjunctivitis; bronchial asthma; beta-chemokine receptor; viral infection.
 New isolated human eosinophil eotaxin receptor - used to develop products for treating and preventing atopic conditions e.g. allergic rhinitis, dermatitis, conjunctivitis and bronchial asthma
 Daugherty BL, Demartino JA, Siciliano SJ, Springer MS;
WPI; 97-549685/50.
W31850 standard; Protein; 355 AA.
W31850;
 07-MAY-1998 (first entry)
 06-NOV-1997.
24-APR-1997; U06568.
17-JAN-1997; GB-000894.
26-APR-1996; US-016158.
 26-APR-1996; US-017113
(MERI) MERCK & CO INC
 d patients.
355 AA;
 W09741154-A1.
 N-PSDB; T9360
 Homo sapiens.
 infected
 Sequence
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1 mttsldtvetfgttsyyddvgllcekadtralmagfvpplyslvftvgllgnvvvvmili 60

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Gaps ;;

Length 355; Indels

Score 2760; DB 28; Pred. No. 2.88e-228; 0; Mismatches 0;

Query Match
Best Local Similarity 100.0%;
Matches 355; Conservative

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T31335
 Homo sapiens
 WO9622371-A2
 N-PSDB;
 W03377;
 (LEUK-)
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 Gray PW, Rabort CJ, Schweickart VL;

NP197341689/31.

NP52B; T85162.

New nucleic acid encoding chemokine receptors 88-2B and 88C - used nodulate leukocyte trafficking, e.g. for treatment of condulate leukocyte trafficking, e.g. for treatment of inflammation, tumours, viral infections, autoimmune diseases, etc.

This polypeptide sequence comprises novel human chemokine receptor This polypeptide sequence comprises novel human chemokine receptor 88-2B, a G protein coupled receptor that is involved in leukocyte trafficking. Its amino sequence was deduced from a CDNA clone (T85162) isolated from a macrophage library. It shows 72% identity cto CCCKRI. Chemokine receptors 88C (see W27123) has also been identified. 88C and 88-2B receptors and their polypeptide fragments can be produced in transformed host cells. The receptors, peptides comprising one or more of the extracellular or intracellular domains, and anti-receptor antibodies can be used to modulate receptor activities, particularly ligand and G protein binding, and
 iffiilltidrylaivhavfalrartvtfgvitsivtwglavlaalpefifyeteelfee 180
 180
 300
 121 IFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEE
1 MITSLDIVETFGTTSYYDDVGLLCEKADIRALMAQFVPPLYSLVFTVGLLGNVVVVMILI
 241 ifvimavífiífwtpynvaillssygsilfgndcerskhldlvmlvteviayshccmnpvi
 301 yafvgerfrkylrhffhrhllmhlgryipflpseklertssvspstaepelsivf 355
 rheumatoid arthritis;
 14-DEC-1997 (first entry)

Human chemokine receptor 88-2B. atherosclerosis; rheumatoid arthritis

tumour; asthma; viral infection; AIDS; inflammation;
autoimmune disease; therapy; diagnosis; leukocyte trafficking;
G protein coupled receptor; ligand; modulator; antibody; human.
 60..71
/label- Intracellular_domain
93.107
/label- Extracellular_domain
 ..36
label= Extracellular_domain
 131..151
/label- Intracellular_domain
 /label = Extracellular_domain 306.355
 /label- Extracellular_domain
 306..355
/label= Intracellular_domain
 Intracellular_domain
 Location/Qualifiers
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 T 2
W27124 standard; Protein; 355
 ..240
 ..284
 .196
 26-JUN-1997.
20-DEC-1996; U20759.
07-JUN-1996; US-661393.
20-DEC-1995; US-575967.
(ICOS-) ICOS CORP.
 /label=
 WO9722698-A2
 domain
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 121
 181
 301
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 Db
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 Mammalian Chemokine receptor-3 and related nucleic acids - useful to identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc.

Claim 10; Page 113-114; 155pp; English.

C A novel human receptor (W03377), designated Eos L2 or C-C chemokine receptor 3 (CKR-3), is involved in leukcoyte migration associated with inflammation. Its sequence was deduced from a cDNA clone (T31335) isolated from a hyper-eosinophilic syndrome patient. A c silghtly different anno acid sequence (W03376) was deduced from a genomic clone (T3134) and a consensus sequence is given in W0378. Recombinant CKR-3 can be produced in host cells, and is useful for c inhibitors can be used to treat inflammatory disease.
 180
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 300
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 Gaps
 1 mttsldtvetfgttsyyddvgllcekadtralmaqfvpplyslvftvgllgnvvvvmili
 tlcsalypedtvyswrhfhtlrmtifclvlpllvmaicytgiiktllrcpskkkykairl
 241 ifvimavífiífwtpynvaillssygsilígndcerskhldlvmlvteviayshccmnpvi
 yafvgerfrkylrhffhrhllmhlgryipflpseklertssvspstaepelsivf 355
 are potentially potentially userul in the atheroslerosis, rheumatoid arthritis, tumours, asthma, viral infection, AIDS, inflammatory conditions, pathological immune response, abnormal haematopoietic processes etc. Sequence 355 AA;
 15-NOV-1996 (first entry)
CC-chemokine receptor 3.
CC-chemokine receptor 3; CKP-3; Eos-L2; inhibitor; antisense;
 /note= "amino acids 130-138 comprise a motif conserved among C-X-C and C-C chemokine
 Length 355;
 Indels
 Ponath PD, Post TW;
 Score 2760; DB 24;
Pred. No. 2.88e-228;
0; Mismatches 0;
 Location/Qualifiers
 Gerard CJ, Gerard NP, Mackay CR,
 (BGHM) BRIGHAM & WOMENS HOSPITAL. (CHIL-) CHILDRENS MEDICAL CENT.
 Æ
 .r 3
W03377 standard; Protein; 355
 antiinflammatory; eosinophil
 Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 355; Conservative
 receptors"
 19-JAN-1995; US-375199.
 LEUKOSITE INC
 19-JAN-1996; U00608
 96-354528/35.
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 61 kyrrlrimtniyllnlaisdllflvtlpfwihyvrghnwvfghgmckllsgfyhtglyse 120
 121 iffiilltidrylaivhavfalrartvtfgvitsivtwglavlaalpefifyeteelfee 180
 180
 240
 300
 diagnosis and treatment of e.g. inflammation, allergies, auto-immune disease, infections and tumours
Example 7: Pages 99-99: 130pp; English.

The present sequence is human C- chemokine receptor 3 (CRK3), to which human ectaxin (hE), an eosinophil specific chemoattractant capable of stimulating eosinophil secumulation and/or attracting eosinophils (including chemotaxis), binds.

HE can be used to develop products for the diagnosis, prevention or
 9
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 Gaps
 myasthenia gravis; juvenile onset diabetes; glomerulonephritis; autolmanne; thyroiditis; Bechet's; graft; rejection; transplantation; thyroiditis; graft respection; transplantation; allograft; graft versus host; cancer; leukocyte infiltration; reperfusion injury; atherosclerosis; haematologic malignancy; septic; endotoxic; shock; polymyositis; dermatomyositis; immunosuppression; immunodefictency; AIDS; radiation therapy; chemotherapy; autoimmune; corticosteroid;
 241 ifvimavffifwtpynvaillssygsilfgndcerskhldlvmlvteviayshccmnpvi
 241 IFVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAXSHCCMNPVI
 for the
 Human; cotaxin; costroping chemoattractant; stimulation; accumulation; attraction; chemotaxis; diagnosis; prevention; treatment; disease; inflammation; allergy; asthma; rhinitis; hypersensitivity; lung; pneumonia; Loeffler's; syndrome; interstitial; LLD; idiopathic pulmonary fibrosis; rheumatoola arthritis; systemic; lupus erythematosus; SLE; ankylosing spondylitis; sclerosis; Sjorgen's; polymyositis; dermatomyositis; bowel; anaphylaxis; drug; penicillin; cephalosporin; insect sting; Crohn's; ulcerative colitis; spondyloarthropathy; scleroderma; psoriasis; dermatosis; dermatitis; eczema; atopic; urticaria; necrotising; cutaneous; vascullitis; myositis; fascitis; multiple sclerosis;
 ö
 Length 355;
 New isolated human eotaxin gene - used to develop prods.
 Indels
 Ringler DJ;
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 Score 2760; DB 19;
Pred. No. 2.88e-228;
 0; Mismatches
 Qin S,
 ay C, Newman W, Ponath PD, 97-087387/08.
 W10100 standard; Protein; 355 AA.
 AIDS; radiation therapy; chemot
C-C chemokine receptor 3; CRK3
 30-SEP-1997 (first entry)
Human C-C chemokine receptor 3
Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 355; Conservative
 09-JAN-1997.
21-JUN-1996; U10723.
23-JUN-1995; US-494093.
(LEUK-) LEUKOSITE INC.
 N-PSDB; T58783
 Homo sapiens.
 WO9700960-A1.
 09-JAN-1997
 MacKay C,
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Learment of the associated diseases of conditions. The products can be used to treat inflammatory or allergic diseases and conditions, including respiratory allergic diseases (e.g. asthma, allergic diseases or pneumonitis.)

cosinophilic pneumonias such as Loeffler's syndrome and chronic eosinophilic pneumonia, interstitial lung diseases (ILD) such as dispersionability in the associated with rheumatoid arthitis, systemic lupus erythematosus (SLE), ankylosing spondylitis, systemic solerosis, Sjorgen's Syndrome, polymyositis or dermatomyositis), systemic anaphylaxis or hypersensitivity responses, drug allergies (e.g. to penicillin and cephalosporins), insect sting allergies, inflammatory bowel diseases (e.g. Crohn's cleroderma, psoriasis and inflammatory dermatoses (e.g. crohn's scleroderma, psoriasis and inflammatory dermatoses (e.g. crohn's scleroderma, atopic dermatitis, allergic contact dermatitis, escena, atopic dermatitis, allergic contact dermatitis, vaculitis), esoliophilic myositis and hypersensitivity vasculitis, autoimmune thyroiditis, Bechet's disease, graft versus host disease and cancers with leukocyte infiltration of the skin or organs. The products can also be used to treat other inflammatory reaching allograft rejection or diseases or conditions requiring the inhibition of undesirable infilammatory inflammatory conditions requiring the inhibition of undesirable 300 61 kyrrlrimtniyllnlaisdllflvtlpfwihyvrghnwvfghgmckllsgfyhtglyse 120 121 iffiilltidrylaivhavfalrartvtfgvitsivtwglavlaalpefifyeteelfee 180 9 immunosuppression), immunosuppression due to (e.g. congenital) deficiency (e.g in eotaxin) or infectious diseases such as parasitic 1 mttsldtvetfgttsyyddvgllcekadtralmaqfvpplyslvftvgllgnvvvvmili 60 inflammatory responses, including reperfusion injury, atherosclerosis, certain haematologic malignancies, cytokine induced toxicity (e.g. septic or endotoxic shock), polymyositis, dermatomyositis, immunosuppression (e.g. in individuals with immunodeficiency syndromes such as AIDS, undergoing radiation therapy, chemotherapy, therapy for autoimmune disease or other drug therapy, such as corticosteroid therapy, which causes Gaps treatment of hE associated diseases or conditions. The products can ovalbumin. The amplification product was used as a probe to screen a human genomic library in vector EMBL3 SP6/T7 to obtain the hE tlcsalypedtvyswrhfhtlrmtifclvlpllvmaicytgiiktllrcpskkkykairl 241 ifvimavffifwtpynvaillssygsilfgndcertkhldlvmlvteviayshccmnpvi chain sequence were used for the reverse transcriptase polymerase chain reaction (RT-PCR) amplification of RNA isolated from inflamed, eosinophilic lung tissue obtained from Balb/c mice sensitised to ö Degenerate primers based on the guinea pig eotaxin amino acid Length 355; 0; Indels Score 2758; DB 23; Pred. No. 4.32e-228; 1; Mismatches 0; ch 99.9%; 1 Similarity 99.7%; 354; Conservative Local Similarity 355 AA; Seguence Query Match diseases Matches 301 61 181 301 음 ò g ò g ò g ò g ò ద ò

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JT 5 W03376 standard; Protein; 355 AA.

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WPI; 96-354528/35
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 Human CCKR3 chemokine receptor.
CCF18 chemokine; mouse; primer; PCR; amplification; antagonist; human;
abnormal physiology; development; anti-viral; probe; hybridisation.
 180
 240
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 chemokine
 Gaps
 identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc.

Claim 10; Page 110-111; 153pp; English.

A novel human receptor (W03376), designated Eos L2 or C-C chemokine receptor 3 (CKR-3), is involved in leukocyte migration associated with inflammation. Its sequence was deduced from a genomic DNA was deduced from a cDNA clone (T31334). A slightly different amino acid sequence (W03377) was deduced from a cDNA clone (T31335) and a consensus sequence is given in W03378. Recombinant CKR-3 and be produced in host cells, and is useful for screening for CKR-3 ligands, promoters and inhibitors. The inhibitors can be used to treat inflammatory
 useful
 61 kyrrlrimtniyllnlaisdllflvtlpfwihyvrghnwvfghgmckllsgfyhtglyse
 121 iffiilltidrylaivhavfalrartvtfgvitsivtwglavlaalpefifyeteelfee
 tlcsalypedtvyswrhfhtlrmtifclvlpllvmaicytgiiktllrcpskkkykairl
 ;
0
 CC-chemokine receptor 3. CKP-3; Bos-L2; inhibitor; antisense; antiinflammatory; eosinophil.
 /note= "amino acids 130-138 comprise a motif conserved among C-X-C and C-C chemokine receptors"
 Length 355;
 Score 2758; DB 19; Length 35:
Pred. No. 4.32e-228;
1; Mismatches 0; Indels
 Mammalian chemokine receptor-3 and related nucleic acids
 Post IW
 Ponath PD,
 Location/Qualifiers
 Mackay CR,
 (BGHM) BRIGHAM & WOMENS HOSPITAL. (CHIL-) CHILDRENS MEDICAL CENT. (LEUK-) LEUKOSITE INC. Gerard ND. Mackay CR, Gerard NJ. Gerard ND. Mackay CR,
 W25943 standard; Protein; 356 AA
 Query Match
Best Local Similarity 99.7%;
Matches 354; Conservative
 W25943;
13-MAR-1998 (first entry)
 entry)
 19-JAN-1995; US-375199.
 25-JUL-1996.
19-JAN-1996; U00608.
 96-354528/35.
 355 AA;
 WPI; 96-354528,
N-PSDB; T31334
 Homo sapiens.
 15-NOV-1996
 Sequence
 disease.
 region
 Qin S;
 241
 121
 181
 181
 241
 RESULT NO W2 AC W2 AC W2 DT 13 DE HU KW CC KW AB
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New isolated chemokine CCFB and chemokine receptor CCKR3 - used to develop products useful for the diagnosis and treatment of conditions associated with abnormal physiology or development Claim 15; Page 60-62; 73pp; English.

This is the amino acid sequence of a novel CCKR3 chemokine receptor isolated from a Th0-activated human T-cell CDRA library using the sequence amplified by primers T79097 and T79098 as a probe.

The encoded protein can be used to screen for (ant)agonists that bind to the novel CCFB chemokines (W25941 and W25942). These (ant)agonists are useful in the treatment of conditions associated with abnormal
 ä
 121 iffiilltidrylaivhavfalrartvtfgvitsivtwglavlaalpefifyeteelfee 180
 240
 240
 241 ifvimavffifwtpynvaillssygsilfgndcerskhldldmlvteviayshwcclnpl 300
 299
 9
 1; Gaps
 181 tlcsalypedtvyswrhfhtlrmtifclvlpllvmaicytgiiktllrcpskkkykairl
 301 iyafvgerfrkylrhffhrhllmhlgryipflpseklertssvspstgepelsivf 356
 10 IYAFVGERFRKYLRHFFHRHLIAHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF
 CC-chemokine receptor 3 consensus sequence.
CC-chemokine receptor 3; CKP-3; Eos-L2; inhibitor; antisense;
 Length 356;
 Indels
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 Wang
 Post
 Score 2722; DB 26;
Pred. No. 6.57e-225;
3; Mismatches 1;
 ΤJ,
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 Location/Qualifiers
276
 Miyajima A,
 Mackay CR,
 25-JUL-1996.
19-JAN-1996; UO0608.
19-JAN-1995; US-375199.
(BGHW) BRIGHAM & WOMENS HOSPITAL.
(CHIL-) CHILDRENS MEDICAL CENT.
 /label= Thr, Ser
 JT 7
W03378 standard; Protein; 355
 antiinflammatory; eosinophil.
 Query Match 98.6%;
Best Local Similarity 98.6%;
Matches 351; Conservative
 15-NOV-1996 (first entry)
 U8-DEC-1995; US-567882.
(SCHE) SCHERING CORP.
 Gerard NP,
 Dairaghi DJ, Hara I,
 LEUKOSITE INC
19-JUN-1997.
05-DEC-1996; U19139.
08-DEC-1995; US-5678
 Yoshimura A;
WPI; 97-332784/30.
 356 AA;
 misc_difference
 N-PSDB; T79096
 Homo sapiens.
 WO9622371-A2.
 Gerard CJ,
 W03378;
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 Mammalian chemokine receptor-3 and related nucleic acids - useful to identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc.

Claim 10; Page 115-116; 153pp; English.

A consensus amino acid sequence (W03378) was produced for a novel human receptor, designated Eos L2 or C-C chemokine receptor 2 (CKR-3).

It was obtd. by comparing the sequences (W03376-77) deduced from a CKR-3 genomic clone (T31334) and a cDNA clone (T31335). Initial sequence information revealed 2 regions in which the cDNA sequence appeared to be shifted in frame, resulting in 2 sets of 4 contiguous analysis revealed only a single difference between the 2 open creating trames, the genomic clone coding for threonine at position sequence 355 AA.
 ö
 180
 180
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 240
 300
 300
 9
 1 MITSLDIVETFGITSYYDDVGLLCEKADIRALMAQFVPPLYSLVFTVGLLGNVVVVMILI 60
 sequence can
 Gaps
 Claim 1: Fig 9: 90pp; English.
The sequence is that of the C-C chemokine receptor. The sequence cape used in therapeutic or diagnostic compsns. for inflammation and other cytokine mediated disorders.
 mttsldtvetfgttsyyddvgllcekadtralmaqfvpplyslvftvgllgnvvvvmili
 241 ifvimavffifwtpynvaillsxxxxilfgndcerxxxxdlvmlvteviayshccmppvi
 to develop
 receptor and nucleic acid - are used to develop diagnosis and therapy of inflammation and other
 ö
 Length 355;
 Indels
 96.7%; Score 2668; DB 19;
Larity 96.6%; Pred. No. 3.89e-220;
Conservative 0; Mismatches 12;
 -C chemokine receptor.
-C CKR-1; cytokine; inflammation.
 Ź
 (GETH) GENENTECH INC.
HORUK R, NGOLE K, Schall T;
WPI; 94-183505/22.
N-PSDB: Q62695.
New C-C chemokine receptor and nu
prods. for use in diagnosis and t
 standard; Protein; 355
 cytokine-mediated disorders
 30-JAN-1995 (first entry)
 26-MAY-1994.
04-NOV-1993; U10672.
10-NOV-1992; US-974025.
 Local Similarity
es 343; Conser
 355 AA;
 See also R52750-2
 Homo sapiens.
WO9411504-A.
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 R52749
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Products for the detection of these cytokine(s) and their receptors, products for the detection of these cytokine(s) and their receptors, products for the detection of these cytokine(s) and their receptors, products for the detection of these cytokine(s) and their receptors, claim 2, Column 15-18; 12pp; English.

Inflammatory processes

Inflammatory protein-1 alpha (MIP-1 alpha) and regulated upon citylation normal T expressed and secreted (RANTES) protein. Also claimed are: a nucleic acid (see T90384) that encodes the receptor; a subsequence of the nucleic acid, having at least 12 contiguous nucleotides; a cell transformed or transfected with the nucleic acid; and purified MIP-1 alpha/RANTES receptor polypeptide. The receptor and polymorphisms in physiological samples. In addition, the receptor can be expressed and used to assay for MIP-1a/RANTES in creeptor can be expressed and used to assay for MIP-1a/RANTES in useful for monitoring the levels of these cytokines in a patient. Such measurements are useful in following the antiinflammatory contents are useful in following the antiinflammatory contents are useful sequences.
 59 lvqykrlknmtsiyllnlaisdllflftlpfwidyklkddwvfgdamckilsgfyytgly 118
 seiffiilltidrylaivhavfalrartvtfgvitsiiiwalailasmpglyfsktgwef 178
 179 thhtcslhfpheslrewklfgalklnlfglvlpllvmiicytgiikillrrpnekkskav 238
 179 EETLCSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKKKAI 238
 1 metp-nttedydtttefdygdatp-cgkvnerafgagllpplyslvfviglvgnilvvlv 58
 metp-nttedydtttefdygdatp-cqkvnerafgaqllpplyslvfviglvgnilvvlv 58
 4; Gaps
 4; Gaps
 RANTES;
 Length 355;
 Macrophage inffammatory protein 1 alpha; MIP-1 alpha; reduced upon activation normal T expressed and secreted; Ri receptor; cytokine; antiinflammatory; inflammation; human.
 Indels
 Indels
 61;
 Score 1834; DB 25;
Pred. No. 1.32e-146;
67; Mismatches 61;
67; Mismatches
 (USSH) US DEPT HEALTH & HUMAN SERVICES
 Human MIP-1 alpha/RANTES receptor
 Š
 T 9
W26588 standard; Protein; 355
 / Match
Local Similarity 63.0%;
hes 225; Conservative
 21-JAN-1998 (first entry)
 Conservative
 US-012988
 28-JAN-1993; 012988
 355 AA;
 97-392945/36
 N-PSDB; T90384
 Homo sapiens.
US5652133-A.
 28-JAN-1993;
 29-JUL-1997
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 Query Match
Best Local 9
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Score 1834; DB 11; Length 355; Pred. No. 1.32e-146;

66.48;

Best Local Similarity

Query Match

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4;
 Human MIP-lalpha/RANTES receptor protein.

Human MIP-lalpha/RANTES receptor; osteoporosis; pccR; digestive ulcer; macrophage inflammatory protein lalpha; diabetes; central disease; regulated on activation, normal T cell expressed and secreted; allergy; affinity compound; expression vector; CHO cell; viral disease; infectious disease; tumour; hyperlipidaemia; hypercholesterolaemia.
 Disclosure; Page 15-16; 19pp; Japanese.

This sequence represents human MIP-1 alpha/RANTES receptor (macrophage inflammarcry protein 1 alpha/regulated on activation, normal T cell expressed and secreted). The human MIP-1 alpha/RANTES receptor protein may be used in a method for the screening of human MIP-1 alpha/RANTES receptor receptor receptor affinity compounds. The MIP-1 alpha/RANTES receptor coding sequence may be included in an expression vector, preferably pCCR, and used to transform a CHO cell for use in the same method. The receptor protein can provide a preventive and treating agent for viral diseases,
 infectious diseases, tumours, allergy, diabetes, central diseases, hyperlipidaemia, hypercholesterolaemia, osteoporosis, digestive ulcers,
 238
 298
 59 lvqykrlknmtsiyllnlaisdllflftlpfwidyklkddwvfgdamckilsgfyytgly 118
 thhtcslhfpheslrewklfgalklnlfglvlpllvmiicytgiikillrrpnekkskav 238
 1 metp-nttedydtttefdygdatp-cqkvnerafgaqllpplyslvfviglvgnilvvlv 58
 4; Gaps
 Preparation of human MIP-1-alpha/RANTES receptor protein - used in the treatment of viral diseases, tumours, allergy, diabetes
 rlifvimiifflfwtpynltilisvfqdflfthecegsrhldlavgvteviaythccvnp
lvgykrlknmtsiyllnlaisdllflftlpfwidyklkddwvfgdamckilsgfyytgly
 SEIFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELF
 thhtcslhfpheslrewklfqalklnlfglvlpllvmiicytgiikillrrpnekkskav
 239 RLIFVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMNP
 1 MITSLDIVETFGTIS-Y-YDDVGLLCEKADIRALMAQFVPPLYSLVFTVGLLGNVVVVMI
 Length 355;
 Score 1834; DB 24; Length 35
Pred. No. 1.32e-146;
67; Mismatches 61; Indels
 W25751 standard; Protein; 355 AA
 28-DEC-1995; 342130.
28-DEC-1995; JP-342130.
(TAKE) TAKEDA CHEM IND LTD.
WPI; 97-399449/37.
 / Match 66.4%;
Local Similarity 63.0%;
nes 225; Conservative
 (first entry)
 355 AA;
 osteoporosis etc.
 WPI; 97-399449/
N-PSDB; T86154.
 Homo sapiens.
J09176048-A.
 20-NOV-1997
 Sequence
 Query Match
 179
59
 59
 119
 119
 239
 299
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2
 Claim 1; Page 20-21; 26pp; Japanese. This sequence is a rat CC chemokine receptor. The receptor can be used to screen for novel binding compounds and for preparation of antibodies
 60 mqhrrlqsmtsiylfnlavsdlvflftlpfwidyklkdnwvfgdamckllsgfyylglys 119
 60 IKYRRLKIMTNIYLLNLAISDLLFLVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYS 119
 120 eiffiilltidrylaivhavfslrartvtfgiitsliiwalailasipalcffkaqweft 179
 240 lifaitllffllwtpynltvfvsafqdvlftngcegskqldlaiqvteviaythccvnpi 299
 (TAKE) TAKEDA CHEM IND LTD.
WPI; 97-486426/45.
N-PSDB; T86839.
CC chemokine receptor protein - useful to screen for novel binding
 rlifvimiifflfwtpynltilisvfqdflftheceqsrhldlavqvteviaythccvnp
 180 hhtcsphfpdeslktwkrfqalklnllglilpllvmiicyagiirillrrpnekkakavr
 300 iyvfvgerfrkylrqlfqrhvaiplakwlpffsvdqlertssltpstgehelsggf 355
 299 VIYAFVGERFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF
 299 viyafvgerfrkylrqlfhrrvavhlvkwlpflsvdrlervsstspstgehelsagf
 Chemokine receptor 88C; atherosclerosis; rheumatoid arthritis; tumour; asthma; viral infection; AIDS; inflammation; autoimmune disease; therapy; diagnosis; leukocyte trafficking; G protein coupled receptor; ligand; modulator; antibody.
 5
 Length 355;
 Indels
 screen; binding; ligand
 Score 1726; DB 24;
Pred. No. 4.07e-137;
88; Mismatches 61;
 ¥
 ¥.
 14-DEC-1997 (first entry)
Macaque chemokine receptor 88C.
 T 11
W29179 standard; Protein; 355
 T 12
W27125 standard; Protein; 352
 rat; CC chemokine receptor;
 62.5%;
57.6%;
 19-DEC-1997 (first entry)
 205; Conservative
 Rat CC chemokine receptor
 02-SEP-1997.
22-FEB-1996; 035192.
22-FEB-1996; JP-035192.
 Query Match
Best Local Similarity
 355 AA;
 rattus.
 J09227599-A.
 antiserum
 compounds
 Macaca sp
 Sequence
 Rattus
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 Matches
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IT 14
W27407 standard; Protein; 352 AA.
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 New nucleic acid encoding chemokine receptors 88-2B and 88C - used to modulate leukocyte trafficking, e.g. for treatment of inflammation, tumours, viral infections, autoimmune diseases, etc. of laim 36; Page 57-58; 65pp; English.

Claim 36; Page 57-58; 65pp; English.

This polypeptide sequence comprises macaque chemokine receptor 88C, of profein coupled receptor that is involved in leukocyte trafficking. Its amino sequence was deduced from a 88C DNA (185163) isolated by PCR amplification. It shows 97% identity to human 88C (WA7123). 88C receptors and their polypeptide fragments can be produced in transformed host cells. The receptors, peptides comprising one or more of the extracellular or intracellular comprising one or more of the extracellular or intracellular ceptor activities, particularly ligand and G protein binding, and anti-receptor antibodies can be used to modulate are potentially potentially useful in the treatment of are potentially potentially useful in the treatment of atheroslerosis, rheumatold arthritis, tumours, asthma, viral infection, AIDS, inflammatory conditions, pathological immune response, abnormal haematopoietic processes etc. A hybridoma processes an antibody that specifically binds to macaque 88C is
 ó
 80 lltvpfwahyaaaq-wdfgntmcqlltglyfigffsglffiilltidrylaivhavfalk 138
 196
 201
 83
 20 cqkinvkqiaarllpplyslvfifgfvgnilvvlillinckrlksmtdiyllnlaisdllf 79
 Gaps
 14-DEC-1997 (first entry)
Human chemokine receptor 88C.
Chemokine receptor 88C; atherosclerosis; rheumatoid arthritis;
tumour; asthma: viral infection; AIDS; inflammation;
autoimmune disease; therapy; diagnosis; leukocyte trafficking;
G protein coupled receptor; ligand; modulator; antibody; human.
Homo sapiens.
 54.2%; Score 1497; DB 24; Length 352;
55.2%; Pred. No. 4.95e-117;
7ative 84; Mismatches 57; Indels 9
 iakrfckccsifqqeaperassvytrstgeqeisv 350
 320 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 /label= Extracellular_domain 56..67
 Gray PW, Raport CJ, Schweickart VL;
WPI; 97-341689/31.
 Location/Qualifiers
 W27123 standard; Protein; 352
 Local Similarity 55.2%;
hes 185; Conservative
 07-JUN-1996; US-661393
20-DEC-1995; US-575967
 352 AA;
 (ICOS-) ICOS CORP
 N-PSDB: T85163
WO9722698-A2
 Seguence
 Query Match
 claimed
 domain
 domain
 Best Loca
Matches
 261
 139
 197
 202
 257
 316
 RESULT
WAS
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DDE HU
DDE HU
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N-PSDB; T88161.

New nucleic acid encoding chemokine receptors 88-2B and 88C - used to modulate leukocyte trafficking, e.g. for treatment of to modulate leukocyte trafficking, e.g. for treatment of inflammation, tumours, viral infections, autoimmune diseases, etc. Inflammation, tumours, viral infections, autoimmune diseases, etc. Claim 16; Page 47-48; 65pp; English.

Scalar 16; Page 47-48; 65pp; English.

This polypeptide sequence comprises novel human chemokine receptor trafficking. Its amino sequence was deduced from a CDNA clone (T85161) isolated from a macrophage library. It shows 62% identity to CCCKR1. Chemokine receptor 88-2B (see W27124) has also been identified. 88C and 88-2B receptors and their polypeptide fragments can be produced in transformed host cells. The receptors, peptides comprising one or more of the extracellular or intracellular comprising one or more of the extracellular or intracellular receptor activities, particularly ligand and 6 protein binding, and are potentially potentially useful in the treatment of are potentially potentially useful in the treatment of anteroslerosis, inflammatory conditions, pathological immune response, abnormal haematopoietic processes etc.
 256
 315
 319
 201
 20 cqkinvkqiaarllpplyslvfifgfvgnmlvililinckrlksmtdiyllnlaisdlff 79
 Gaps
 24 CEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLF
 .;
6
 Length 352;
 Indels
 Score 1484; DB 24;
Pred. No. 6.81e-116;
87; Mismatches 57;
 9..112
|Tabel= Extracellular_domain
 259..280
/label= Extracellular_domain 301..352
 iakrfckccsifqqeaperassvytrstgeqeisv 350
 .25..145
'label= Intracellular_domain
 166..191
/label- Extracellular_domain
 /label- Intracellular_domain
 320 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
label Intracellular_domain
 /label= Intracellular_domain
 Schweickart VL;
 Query Match 53.8%;
Best Local Similarity 54.3%;
Matches 182; Conservative
 26-JUN-1997.
20-DEC-1996; U20759.
07-JUN-1996; US-661393.
20-DEC-1995; US-575967.
(ICOS-) ICOS CORP.
 . . 235
 Gray PW, Raport CJ,
 WPI; 97-341689/31.
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Homo sapiens.
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 useful to diagnose, prevent and/or treat inflammatory disorders, useful to diagnose, prevent and/or treat inflammatory disorders, autolimune disease and viral infection allowable diseases and viral infection claim 4: Fig 1b-c: 94pp; Braglish.

The present sequence is human CC (Cys-Cys) chemokine receptor The present sequence is human CC (Cys-Cys) chemokine receptor C chemokines, but not by moncyte chemoattractant protein 1 (MCP-1), MCP-2, MCP-3, interleukin-8 (IL-8) or growth related gene product alpha (GRO alpha) chemokines. Active CCR-5 is also a receptor of human immunodeficiency virus type 1 or type 2 (HIV-1) or HIV-2). CCR5 or its cDNA can used to diagnose, treat and/or prevent inflammatory diseases, e.g. rheumatoid arthritis, glomerulonephitis, asthma, idiopathic pulmonary fibrosis and sequence 352 AA;
 80 lltvpfwahyaaaq-wdfgntmcqlltglyfigffsgiffiilltidrylavvhavfalk 138
 144 ARTVTFGVITSIVTWGLAVLAALPEFIFYETE-ELFEETLCSALYPEDTVYS-WRHFHTL 201
 lntfqef-fglnncsssnrldqamqvtetlgmthccinpiiyafvgekfrnyllvffqkh 315
 cqkinvkqiaarllpplyslvfifgfvgnmlvililinckrlksmtdiyllnlaisdlff 79
 Gaps
 human immunodeficiency virus; type 1, type 2, HIV-1; HIV-2; diagnosis; treatment; prevention; inflammantory disease; rheumatoid arthritis; glomerulonephritis; asthma; idiopathic pulmonary fibrosis; psoriasis; viral infection; cancer; atherosclerosis; autoimmune disorder.
 artvtfgvvtsvitwvvavfaslpgiiftrsqkeglhyt-csshfpysq-yqfwknfqtl
 197 kivilglvlpllvmvícysgilktllrcrnekkrhravrliftímivyflfwapynivll
 .
ن
 Length 352;
 W23835;
08-JUN-1998 (first entry)
Human CC chemokine receptor 5 (CCR5).
CC chemokine receptor 5; CCR5; G-protein coupled receptor;
human immunodeficiency virus; HIV; CD4; AID5; therapy;
 Indels
 57;
 Score 1484; DB 27;
Pred. No. 6.81e-116;
87; Mismatches 57;
 28-FEB-1997; BE0023.
06-A0G-1996; EP-870102.
01-MAR-1996; EP-870012.
(EURO-) EUROSCREEN SA.
Libert F, Parmentier M, Samson M, Vassart G; N-PSDB; T90117.
 LIMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 316 lakrfckccsifqqeaperassvytrstgeqeisv 350
 Human Cys-Cys chemokine receptor 5; CCR5;
 T 15
W23835 standard; Protein; 352 AA.
 / Match 53.8%;
Local Similarity 54.3%;
nes 182; Conservative
 (first entry)
 transgenic animal
 Homo sapiens.
WO9732019-A2.
 04-SEP-1997.
 14-APR-1998
 Query Match
 257
 320
 Matches
 20
 139
 202
 261
 RESULT
ID W2
AC W2
DT 06
DE H1
KW CC
KW h1
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fusion between HIV and a target cell

C chemokine receptor 5 polypeptide - used to inhibit membrane

fusion between HIV and a target cell

C taim 68; Fig 1C; 70pp; English.

This protein sequence comprises of a novel human macrophage-selective

C c chemokine receptor that has been designated CR5. The sequence
was deduced from an isolated CDNA clone (see T76920). An Alal27Leu

variant (see W238340 of CCR5 was also identified. The susceptibility

of human macrophages to HIV infection depends on cell surface
expression of CD4 and CCR5. CCR5 is a member of the 7-transmembrane

superfamily of G-protein coupled cell surface molecules. It plays

an essential role in the membrane fusion step of infection by some

HIV isolates. The establishment of stable, non-human cell lines

and transgenic manmals having cells that coexpress human CD4 and

CCR5 provides valuable tools for research of HIV infection.

Antibodies that bind to CCR5, CCR5 variants, and CCR5-binding

agents capable of blooking membrane fusion between HIV and target

c agents capable of blooking membrane fusion between HIV and target
 artvtfgvvtsvitwvvavfaslpgiiftrsqkeglhyt-csshfpysq-yqfwknfqtl 196
 80 lltvpfwahyaaaq-wdfgntmcqlltglyfigffsgiffilltidrylavvhavfalk 138
|:|:||| || :: | ||: || ||:||: || ||:||
 84 LVILPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALR 143
 83
 20 cqkinvkqiaarllpplyslvfifgfvgnmlvililinckrlksmtdiyllnlaisdlff 79
 cells represent potential anti-HIV therapeutics for macrophage tropic strains of HIV. Sequence 352 AA;
 Length 352;
 Indels
 "extracellular locp-3 (Claim 19)"
 "extracellular loop-1 (Claim 19)"
 "extracellular loop-2 (Claim 19)"
 Score 1484; DB 29;
Pred. No. 6.31e-116;
87; Mismatches 57;
 /label= IV
/note= "transmembrane domain"
 28-MAY-1996; US-018508.
(USSH) US DEPT HEALTH & HUMAN SERVICES.
Alkhatib G, Berger EA, Broder CC, Combadiere I
APP Y, Kennedy PE, Murphy PM;
WPI; 98-032650/03.
 "transmembrane domain"
 "transmembrane domain"
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 /note= "transmembrane domain"
 /note= "transmembrane domain
Location/Qualifiers
 53.8%;
 /label= III
 /label= VI
 Conservative
 29..55
/label= I
 277..300
/label= V.
 .210
 .219
 109..120
 258
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277..30
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 04-DEC-1997.
28-MAY-1997; U09586.
 Query Match
Best Local Similarity
Matches 182; Conser
 N-PSDB; T76920.
 WO9745543-A2
 Domain
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 Domain
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202 RMTIFCLVLPLLVMAICYTGIIKTLLRCPS-KKKYKAIRLIFVIMAVFFIFWTPYNVAIL 260
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| 315                                                                  | 210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 257 Intfqef-fglnncsssnrldgamqvtetlgmthccinpiiyafvgekfrnyllvffqkh 315 | 18C TECHNOLIST STANDARD THE TAX TOTAL STANDARD TOTAL STANDARD STAN |
| 25                                                                   | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

Tue Dec 8 23:22:31 1998; MasPar time 1720.66 Seconds 1527.980 Million cell updates/sec - n.a. database search, using Smith-Waterman algorithm Tabular output not generated. n.a. ch\_nn Run on:

>US-08-963-656-3 (1-1193) from US08963656.seq 1193 Title:

......TTGCCTAAAGAGGAAGGACC 1193 1 TTGTGCTTATCCGGGCAAGA. AACACGAATAGGCCCGTTCT. Description:
Perfect Score:
N.A. Sequence:
Comp:

TABLE default Gap 6 Scoring table:

Dbase 0; Query 0 STD Nmatch 567134 segs, 1101898692 bases x 2 Searched:

Minimum Match O% Listing first 45 summaries Post-processing:

emb155 Database:

Database:

1:em\_ba 2:em\_fun 3:em\_htg 4:em\_hum1 5:em\_hum2 6:em\_in 7:em\_om 8:em\_or 9:em\_ov 10:em\_pat 11:em\_ph 12:em\_pl 13:em\_ro 14:em\_vi 13:em\_ro 14:em\_vi enbank107 15:gb\_ba1 16:gb\_ba2 17:gb\_htg 18:gb\_in 19:gb\_om 20:gb\_ov 21:gb\_pat 22:gb\_ph 23:gb\_pl 24:gb\_ltg 25:gb\_pr 27:gb\_pr 23:gb\_pr 23:gb\_vi 23:gb\_vi 33:gb\_vi 33:gb\_vi 33:gb\_vi Mean 11.128; Variance 4.968; scale 2.240 Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| ~ C C C 4 C | Score<br>1112<br>1110<br>1110<br>1068                               | Match<br>93.2<br>93.0<br>93.0<br>89.5                                          | i Fe                                                     | DB 25 27 25 26 26 26 | 1D<br>HSU49727<br>HSU28694<br>HSU51241<br>AF026535                        | Description Human C-C chemokine re Human eosinophil CC ch Human eosinophil eotax Homo sapiens chemokine                                                                                                          | Pred. No. 0.00e+000 0.00e+ |
|-------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------|----------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | 4425<br>4425<br>4425<br>425<br>425<br>425<br>425<br>425<br>425<br>4 | 0.08<br>4 4 4 4 8 0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01<br>0.01 | 10068<br>3 10068<br>3 11440<br>11315<br>1 1315<br>9 1495 | 72888888             | CAL13775 AKN13776 AF017283 MMU28406 MMU29677 RNRPCKR3 AF003954 HUMCCCKR1A | Ceffootlinects actualops Macaca mulatta CCR-3 g Macaca mulatta chemoki Mus musculus macrophag Mus musculus chemokine Rattus norvegicus mRNA Rattus norvegicus chem Human C-C chemokine re CDNA encoding human MI | 0.00e+000<br>0.00e+000<br>0.00e+000<br>0.00e+000<br>0.00e+000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| HSU49727 1689 bp DNA PRI 04-OCT-1996 | Human C-C chemokine receptor 3 (CKR-3) gene, complete cds. 049727. | 91477560 |          | Homo sapiens | Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata; | Vertebrata; Euthería; Primates; Catarrhini; Hominidae; Homo. | 1 (bases 1 to 1689) | Ponath, P.D., Qin, S., Post, T.W., Wang, J., Wu, L., Gerard, N.P., | Newman, W., Gerard, C. and Mackay, C.R. | Molecular cloning and characterization of a human eqtaxin receptor | expressed selectively on eosinophils | J. Exp. Med. 183 (6), 2437-2448 (1996) | 96281895 | 2 (bases 1 to 1689) | Ponath, P.D. | Direct Submission | Submitted (21-FEB-1996) Paul D. Ponath, Molecular Biology, | LeukoSite, Inc., 215 First St., Cambridge, MA 02118, USA | /Qualifiers | •      | /organism="Homo sapiens" | /db_xref="taxon:9606" | 11689 | /gene="CKR-3" | .1811248 | /gene#"CKR-3" | /codon_start=1 | /function-"G-protein coupled receptor for eotaxin, RANTES | and MCP-3" | /product="C-C chemokine receptor 3" | /db_xref="PID:91477561" | <pre>/translation="MTTSLDTVETFGTTSYYDDVGLLCEKADTRALMAQFVPPLYSLV</pre> |
|--------------------------------------|--------------------------------------------------------------------|----------|----------|--------------|----------------------------------------------------------|--------------------------------------------------------------|---------------------|--------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------|--------------------------------------|----------------------------------------|----------|---------------------|--------------|-------------------|------------------------------------------------------------|----------------------------------------------------------|-------------|--------|--------------------------|-----------------------|-------|---------------|----------|---------------|----------------|-----------------------------------------------------------|------------|-------------------------------------|-------------------------|-----------------------------------------------------------------------|
| RESULT 1<br>LOCUS                    | DEFINITION                                                         | NID      | KEYWORDS | ORGANISM     |                                                          |                                                              | REFERENCE           | AUTHORS                                                            |                                         | TITLE                                                              |                                      | JOURNAL                                | MEDLINE  | REFERENCE           | AUTHORS      | TITLE             | JOURNAL                                                    |                                                          | FEATURES    | source |                          |                       | dene  |               | CDS      |               |                |                                                           |            |                                     |                         |                                                                       |

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 Gaps
 138 ACTATGATGACGTGGGCCTGCTGTGAAAAAGCTGATACCAGAGCACTGATGGCCCAGT
 TCACCTGGGGCCTGGCAGTGCTAGCAGCTCTTCCTGAATTTATCTTCTATGAGACTGAAG
 CGAAGCATCTGGACCTGGTCATGCTGGTGACAGAGGTGATCGCCTACTCCCACTGCTGCA
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 Length 1689;
 others
 Indels
 ..
 Score 1112; DB 25;
Pred. No. 0.00e+00;
0; Mismatches 2;
 4
 497
 345 g
 Query.Match
Best Local Similarity 99.8%;
Matches 1114; Conservative
 416 c
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 430
 COUNT
 78
 887
 1001
 1067
 167
 227
 287
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 78 CAGGGAGAAGTGAAATGACAACCTCACTAGATACAGTTGAGACCTTTGGTACCACATCCT 137
 16-MAY-1996
 17
 Gaps
 HSU28694 1201 bp mRNA PRI 16-MAY-199
Human eosinophil CC chemokine receptor 3 mRNA, complete cds
U28694
 Homo
 CAGGGAGAAGTGAAATGACAACCTCACTAGATACAGTTGAGACCTTTGGTACCACATCCT
 TGGAAAGAACCAGCTCTGTCTCCCATCCACAGCAGAGCCGGAACTCTCTATTGTGTTTT
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 22, 1996 this sequence version replaced gi:881569 am J. Biol. Chem. 270 (1995) 30235].
Location/Qualifiers
 (bases 1 to 1201)
Combadiere, C., Ahuja, S.K. and Murphy, P.M.
Cloning and functional expression of a human eosinophil
 Chordata;
 eosinophil
 Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; 1 (bases 1 to 1200)
Combadiere, C., Ahuja, S.K. and Murphy, P.M. Cloning and functional expression of a human eosinophil
 1;
 Direct Submission
Submitted (07-JUN-1995) Christophe Combadiere, NIAID,
Institutes of Health, Building 10, Room 11N111, Bethes
 Length 1201;
 Indels
 chemokine receptor
J. Biol. Chem. 270 (28), 16491-16494 (1995)
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Xiao, L., Weiss,S., Qari,S., Rudolph,D., Hodge,T. and Lal,R.
Partial resistance to infection by syncytium-inducing primary HIV-1 in exposed uninfected individuals homozygous for CCR5 32bp deletion Unpublished
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 The rhesus macaque CCR3 chemokine receptor is a cell for HIV-2, but not for HIV-1
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Submitted (05-Aug-1997) Division of Comparative Medicine, Johns Submitted (105-Aug-1997) Division of Medicine, 720 Rutland Ave., Traylor 6-60, Baltimore, MD 21205, USA
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Macaca mulatta chemokine receptor (CCR3) gene, complete cds.
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National Institutes of Health, Building 10, Room 11N113, Bethesda,
MD 20892, USA
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Gao,J.L. and Murphy,P.M.
Cloning and differential tissue-specific expression of three
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 Submitted (13-MXY-1997) Pharmacology and Therapeutics, University of Florida, 1600 S.W. Archer Road, Box 100267, Gainesville, FL 32610-0267, USA
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J. Neuroimmunol. (1998) In press
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Neote, K., DiGregorio, D., Mak, J.Y., Horuk, R. and Schall, T.J. Molecular cloning, functional expression, and signaling characteristics of a C-C chemokine receptor (21), 415-425 (1993)
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Gao, J.-L., Tiffany, H.L., Kuhns, D., McDermott, D., Li, X., Francke, U. and Murphy, P.M.
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Pred. No. 0.00e+00;
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Search completed: Wed Dec 9 00:18:16 1998 Job time : 3345 secs.

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Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

Ch\_nn n.a. - n.a. database search, using Smith-Waterman algorithm Run on:

Wed Dec 9 01:11:26 1998; MasPar time 171.85 Seconds 944.517 Million cell updates/sec

944.517 Million or Tabular output not generated.
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Scoring table: TABLE default Gap 6

Nmatch STD: Dbase 0; Query 0

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188442 seqs, 68026449 bases

Searched:

Post-processing: Minimum Match 0% Listing first 45 summaries

Database: n-genes

n-geneseq32 1:part1 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7 8:part8 9:part9 10:part10 11:part11 12:part12 13:part13 14:part14 15:part15 16:part16 17:part17 18:part18 19:part19 20:part20 21:part21 22:part22 23:part23 24:part24 25:part25 26:part26 27:part27 28:part28 29:part29 30:part30 31:part31 32:part32 33:part33 34:part34 40:part40

Statistics: Mean 9.178; Variance 5.134; scale 1.788

Pred: No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

|           | Pred. No.                     | 0.00e+00              | 1.28e-295             | 1.28e-295             | 1.28e-295             | 3.21e-243            | 8.30e-141             | 1.44e-138             | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|           | Description                   | CC-chemokine receptor | CC-chemokine receptor | Human C-C chemokine r | CC-chemokine receptor | Human chemokine recep | Human eosinophil eota | Human CCKR3 chemokine | Human MIP-lalpha/RANT | C-C chemokine recepto | Human MIP-1 alpha/RAN | cDNA encoding rat CC | Macaque chemokine rec | DNA encoding human CC |
| SUMMARIES | а                             | T31335                | T31336                | T58783                | T31334                | T85162                | T93601                | T79096                | T86154                | 062695                | T90384                | T86839               | T85163                | T76920                |
|           | BB                            | 23                    | 23                    | 32                    | 23                    | 34                    | 38                    | 36                    | 33                    | 11                    | 34                    | 34                   | 34                    | 39                    |
|           | %<br>Query<br>Match Length DB | 1193                  | 1116                  | 1689                  | 1689                  | 1915                  | 5099                  | 1071                  | 1065                  | 1495                  | 2156                  | 1544                 | 1059                  | 1225                  |
|           | %<br>Query<br>Match           | 100.0                 | 93.2                  | 93.2                  | 93.2                  | 93.0                  | 93.0                  | 86.7                  | 35.9                  | 35.9                  | 35.9                  | 30.1                 | 18.7                  | 18.4                  |
|           | Score                         | 1193                  | 1112                  | 1112                  | 1112                  | 1110                  | 1110                  | 1034                  | 428                   | 428                   | 428                   | 359                  | 223                   | 220                   |
|           | Result<br>No.                 |                       | 2                     | m                     | 4                     | Ŋ                     | 9                     | 7                     | ထ                     | σ                     | 10                    | 11                   | 12                    | 13                    |

| 1.44e-138             | 4e-                   | ė                    | .44e-                 | .71e-                 | 3.71e-105 | .90e-                 |     | .07e-                 | .07e-                 | 2e-                   | 5e-                   |                       | - eg                  |                       | .76e-                 | .44e-                 | .48e-                 | .48e- | .11e- |                       | .49e-                 | .49e-                 | •      | .72e-    | ė                     | .81e- | .81e- | 1e-                   | .30e-                 | •          | <b>6</b> |
|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------|-----------------------|-----|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------|-------|-----------------------|-----------------------|-----------------------|--------|----------|-----------------------|-------|-------|-----------------------|-----------------------|------------|----------|
| DNA encoding human CC | Human G-protein chemo | CDNA for human CCR5. | Human chemokine recep | Human monocyte chemoa |           | Human monocyte chemoa |     | CDNA for inactive hum | Human chemokine recep | Chemokine receptor K5 | Human G-protein recep | Partial coding sequen | Putative seven transm | Epstein Barr virus in | Putative seven transm | Seven transmembrane r | Seven transmembrane r |       |       | Recombinant high affi | Human chemokine recep | Human macrophage/dend | coding | ant high | Recombinant high affi |       | 8     | Interleukin-8 recepto | Chemokine receptor cD | encoding a | kin      |
| T76919                | T44042                | 11                   | 516                   | 597                   | 529       | 529                   | 311 | $\sim$                | 954                   | 22                    | <b>9</b>              | 066162                | 5                     | 덖                     | 5                     | 516                   | 517                   | 516   | 541   | 995                   | 954                   | n                     | 030011 | 994      | 036660                | 900   | 950   | 052                   | 527                   | 100        | 900      |
| 39                    | 25                    | 37                   | 34                    | 32                    | 15        | 12                    | 37  | 37                    | 39                    | 23                    | 26                    | 11                    | 11                    | 11                    | 11                    | 11                    | 11                    | 11    | 40    | 17                    | 33                    | 40                    | Ŋ      | 17       | 17                    | 17    | 'n    | 13                    | 23                    | S          | 17       |
| 1255                  | 1414                  | 1477                 | 3383                  | 1083                  | 1979      | 2232                  | 792 | 1442                  | 1557                  | 1607                  | 1586                  | 1900                  | 2058                  | 2154                  | 2160                  | 2751                  | 1162                  | 2254  | 1119  | 1373                  | 1316                  | 1547                  | 1200   | 1200     | 1176                  | 1883  | 1933  | 1933                  | 514                   | 1373       | 1748     |
| 18.4                  | 18.4                  | œ.                   | 8                     | •                     | 4.        | 4.                    |     | 12.7                  |                       | ö                     |                       |                       | ٠                     |                       | •                     | •                     |                       | ٠     |       | ٠                     | 4.3                   | 4.3                   | 4.1    | ٠        | •                     | 4.0   | •     |                       | 3.7                   | •          | 3.6      |
| 220                   | 220                   | 220                  | 220                   | 175                   | 175       | 1.69                  | 152 | 152                   | 152                   | 123                   | 9/                    | 69                    | 69                    | 69                    | 69                    | 65                    | 9                     | 09    | 22    | 23                    | 21                    | 51                    | 49     | 49       | 48                    | 48    | 48    | 48                    | 44                    | 43         | 43       |
| 14                    | 15                    | 16                   | 17                    | 18                    | 19        | 20                    | 21  | 22                    | 23                    | 24                    | 25                    | 56                    | 27                    | 28                    | 53                    | 30                    | 31                    | 32    | 33    | 34                    | 32                    | 36                    | 37     | 38       | 39                    | 40    | 41    | 42                    | 43                    | 44         | 45       |

## ALIGNMENTS

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S
 - useful
 Mammalian chemokine receptor-3 and related nucleic acids - useful identify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc.

Claim 1; Page 111-113; 153pp; English.

A genomic DNA clone (T31335) codes for a novel receptor (W03377), designated Eos L2 or C-C chemokine receptor 3 (CRR-3), involved in leukocyte migration associated with inflammation. It was isolated from a human library constructed from eosinophils obtd.
 Location/Qualifiers

92..1159
/*tag= a
918..919
/*tag= B
/note= "CRR-3 CDNA clone has GC at positions
918-919, coding for serine (AGC) at
position 276; a genomic clone has CG at
these positions, coding for threonine
(AGC)
 T31335, T3135, T3135, T3135, T31355, T31355, T31355, T31355, T31355, T31355, T31355, T31355, T31355, T
 Post TW
 Ponath PD,
 Gerard CJ, Gerard NP, Mackay CR,
 25-JUL-1996.
19-JAN-1995; U00608.
19-JAN-1995; US-375199.
(BGHM) BRIGHAM & WOMENS HOSPITAL.
(CHIL-) CHILDRENS MEDICAL CENT.
(LEUK-) LEUKOSITE INC.
T
T31335 standard; cDNA; 1193 BP.
 96-354528/35.
 WPI; 96-354528
P-PSDB; W03377
 Homo sapiens
 variation
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 9
 Gaps
from a patient with hyper-eosinophilic syndrome using a probe top CDNA) encoding the MIP-1alpha/RANTES receptor. A CRR-3 genomic clone (171314) was also isolated, and a consensus sequence is given in T31336. The cDNA and genomic clones can be used for the prodn. of recombinant CKR-3 in host cells, or to design antisense sequences useful for treating inflammatory disease. Sequence 1193 BP; A; 310 C; 275 G; 274 T;
 tacttagaagagattttcagggagaagtgaaatgacaacctcactagatacagttgagac
 gggcaatgtggtggtggtgatgatcctcataaaatacaggaggctccgaattatgaccaa
 ccctctgctcgttatggccatctgctacacaggaatcatcaaaaacgctgctgaggtgccc
 CCCTCTGCTCGTTATGGCCATCTGCTACACGGAATCATCAAAACGCTGCTGAGGTGCCC
 cagtaaaaaaagtacaaggccatccggctcattttgtcatcatggcggtgtttttcat
 cttctatgagactgaagagttgtttgaagagactctttgcagtgctctttacccagagga
 tacagtatatagctggaggcatttccacactctgagaatgaccatcttctgtctcgttct
 ;
0
 Length 1193;
 0; Indels
 Score 1193; DB 23;
Pred. No. 0.00e+00;
0; Mismatches 0;
 Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 1193; Conservative
 61
 121
 181
 181
 241
 241
 301
 301
 361
 361
 421
 421
 481
 481
 541
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 661
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Mammalian chemokine receptor-3 and related nucleic acids - useful to dentify receptor inhibitors to treat inflammatory disease, e.g. autoimmune disorders, certain cancers, etc.

Claim 1; Page 114-115; 153pp; English.

Claim 1; Page 114-115; 153pp; English.

Claim 2; Receptor comparing a conservation receptor 2 (CRR-3).

It was deduced by comparing a genomic clone (T31334) and a CDNA clone (T31335) coding for CRR-3 proteins (W03375 and W03377) having slightly different sequences. Initial sequence information revealed 2 regions in which the CDNA sequence appeared to be shifted in CR frame, resulting in 2 sets of 4 contiguous amino acid differences in the predicted proteins. Further sequence analysis revealed only a single difference between the 2 open reading frames, the genomic clone coding for threonine at position 276 and the CDNA clone for
 ö
 180
 61 actatgatgacgtgggcctgctctgtgaaaaagctyataccagagcactgatggcccagt 120
 197
 Gaps
181 tgatgatcctcataaaatacaggaggctccgaattatgaccaacatctacctgctcaacc
 gtacctgcgccacttcttccacaggcacttgctcatgcacctgggcagatacatcccatt
 cagggagaagtgaaatgacaacctcactagatacagttgagacctttggtaccacatcct
 ctactcccactgctgcatgaacccggtgatctacgcctttgttggagagaggttccggaa
 .
0
 15-NOV-1996 (first entry) CC-chemokine receptor 3 consensus DNA secuence. CC-chemokine receptor 3; CKP-3; Eos-L2; inhibitor; antisense; antiinflammatory; eosinophil; ds.
 Length 1116;
 306 T;
 Indels
 χ
 Post
 257 G;
 Score 1112; DB 23;
Pred. No. 0.00e+00;
20; Mismatches 2;
 PD,
 Ponath
 286 C;
 , Mackay CR,
 BRIGHAM & WOMENS HOSPITAL.
CHILDRENS MEDICAL CENT.
LEUKOSITE INC.
 BP
 246 A;
 93.2%;
98.0%;
 standard; DNA; 1116
 Best Local Similarity 98.0%;
Matches 1094; Conservative
 19-JAN-1996; U00608.
19-JAN-1995; US-375199.
 Gerard NP
 1116 BP;
 96-354528/35.
 WPI; 96-354528,
P-PSDB; W03378
 Homo sapiens.
WO9622371-A2.
 25-JUL-1996.
 Gerard CJ,
 Sequence
 Match
 (BGHM)
 T 2 T31336
 (LEUK-)
 Qin S;
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 tggaaagaaccagctctgtctcccatccacagcagagccggaactctctattgtgtttt 1080
 978 TGAACCCGGTGATCTACGCCTTTGTTGGAGAGAGGGTTCCGGAAGTACCTGCGCCACTTCT 1037
 840
 900
 960
 999
 720
 780
 300
 420
 480
 557
 540
 617
 900
 677
 737
 797
 857
 917
 317
 318 TGGCCATTTCGGACCTGCTCTTCCTCGTCACCCTTCCATTCTGGATCCACTATGTCAGGG 377
 GCTTGTACAGCGAGATCTTTTTCATAATCCTGCTGACAATCGACAGGTACCTGGCCATTG 497
 918 GCAAGCATCTGGACCTGGTCATGCTGGTGACAGAGGTGATCGCCTACTCCCACTGCTGCA 977
 ccatctgctacacaggaatcatcaacagctgctgaggtgccccagtaaaaaaagtaca
 aggccatccggctcatttttgtcatcatggcggtgtttttcattttctggacaccctaca
 tgaacccggtgatctacgcctttgttggagagaggttccggaagtacctgcgccacttst
 1098 TGGAAAGAACCAGCTCTGTCTCTCCATCCACAGAGCCGGAACTCTCTATTGTGTTTT
258 TGATGATCCTCATAAAATACAGGAGGCTCCGAATTATGACCAACATCTACCTGCTCAACC
 CCATCTGCTACACAGGAATCATCAAAACGCTGCTGAGGTGCCCCCAGTAAAAAAGTACA
 541 agttgtttgaagagactmtttgcagtgctctttacccagaggatacagtatatagctgga
 gssatttccacactctgagaatgaccatcttctgtctcgttctccctctgctcgttatgg
 858 ATGTGGCTATCCTTCTCTTCCTATCAATCCATCTTATTTGGAAATGACTGTGAGCGGA
 tggccatttcggacctgctctcctcgtcacccttccattctggatccactatgtcaggg
 gcttgtacagcgagatcttttcataatcctgctgacaatcgacaggtacctggcattg
 tccatgctgtgtttgcccttcgagcccggactgtcacttttggtgtcatcaccagcatcg
 tcacctgggggcctggcagtgctagcagctcttcctgaatttatcttctatgagactgaag
 30-SEP-1997 (first entry)
Human C-C chemokine receptor 3 DNA.
Human c-C chemokine secoptor 3 DNA.
Human: eotaxin; eosinophil; chemotatractant; stimulation;
accumulation; attraction; chemotaxis; diagnosis; prevention;
treatment; disease; inflammation; allergy; asthma; rhinitis;
hypersensitivity; lung; pneumonia; Loeffler's; syndrome;
 1081 aggtagatgcagaaaattgcctaaagaggaaggacc 1116
 T
T58783 standard; DNA; 1689 BP.
 198
 1021
 618
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New isolated human ectaxin gene - used to develop prods. for the disease, infections and treatment of e.g. inflammation, allergies, auto-immune disease, infections and treatment of e.g. inflammation, allergies, auto-immune disease, infections and tumours. Example 7; Page 97: 130pp; Enalish.

The present sequence encodes human C-C chemokine receptor 3 (CRK3), to which human ectaxin (hE), an eosinophil specific chemoattractant capable of stimulating eosinophil social compilation and/or attracting he capable of stimulating eosinophil security is prevention or treatment of hE associated diseases or conditions. The products can be used to develop products for the diagnosis, prevention or treatment of hE associated diseases or conditions. The products can be used to treat inflammatory or allergic diseases and conditions, including respiratory allergic diseases or pneumonis, allergic consinophilic pneumonias such as Loeffler's syndrome and chronic eosinophilic pneumonia, interstitail ung diseases (LID) such as inflammatory fibrosis or ILD associated with rheumatcid arthritis, systemic lupus erythematcosus (SLE), ankylosing spondylitis, systemic lupus erythematcosus (SLE), ankylosing spondylitis, systemic anaphylaxis or hypersensitivity cesponses, drug allergies (e.g. to penicillin and cephalosporins), insect sting allergies, inflammatory dermaticoses (e.g. crohn's dermatitis, eczema, atopic dermatitis, allergic context dermatitis, and inclammatory dermatoses (e.g. crohn's dermatitis), eosinophilic myositis and fascitis, multiple sclerosis, SLE, myasthemia gravis, juvenile onset diabetes, glomerulonephritis, autoimmune thyroiditis, medicitis descent dermatitis, allergic ceres or conditions requiring the inhibition of undesirable the skin or organs. The products can also be used to treat other efficient efficiences inflammatory including the inhibition of undesirable inflammatory including the conditions arequiring the conditions requiring the inhibition of undesirable inflammatory including the science of the skin or o
interstitial; ILD; idiopathic pulmonary fibrosis;

W rheumatoid arthritis; systemic; lupus erythematosus; SLE;

ankylosing spondylitis; sclerosis; Sjorgen's; polymyositis;
ankylosing spondylitis; sclerosis; Sjorgen's; polymyositis;
dermatomyositis; bowel; anaphylaxis; drug; penicillin;

W cephalosporin; insect sting; Crohn's; ulcerative colitis;
Spondyloarthropathy; scleroderma; psoriasis; dermatosis;
M dermatitis; eczema; aropic; urticaria; necrotising; cutaneous;
W vasculitis; myositis; fascitis; multiple sclerosis;
M myasthenia gravis; juvenile onset diabetes; glomerulonephritis;
W transplantation; allograft; graft versus host; cancer;
leukocyte infiltration; reperfusion injury; atherosclerosis;
W haematologic malignancy; septic; endotoxic; shock;
W polymyositis; dermatomyositis; immunosuppression; immunodeficiency;
 immunosuppression), immunosuppression due to (e.g. congenital) deficiency (e.g in eotaxin) or infectious diseases such as parasitic
 inflammatory responses, including reperfusion injury, atherosclerosis, certain haematologic malignancies, cytokine induced toxicity (e.g. septic or endotoxic shock), polymyositis, dermatomyositis, immunosuppression (e.g. in individuals with immunodeficiency syndromes such as AIDS, undergoing radiation therapy, chemotherapy, therapy for autoimmune disease or other drug therapy, such as corticosteroid therapy, which causes
 AIDS, radiation therapy; chemotherapy; autoimmune; corticosteroid; C-C chemokine receptor 3; CRK3; ss.
 sequence were used for the reverse transcriptase polymerase chain
 Degenerate primers based on the guinea pig eotaxin amino acid
 5
 S, Ringler
 Oin
 Location/Qualiflers
181..1248
/*tag= a
 (LEUK-) LEUKOSITE INC.
MacKay C, Newman W, Ponath PD,
 /product- CRK3
 21-JUN-1996; U10723.
23-JUN-1995; US-494093
 WPI; 97-087387/08.
P-PSDB; W10100.
 Homo sapiens
 diseases
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variation
 Query Match
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 tgaacccggtgatctacgcctttgttggagagaggttccggaagtacctgcgccacttct 1126
 atgiggetateetteteteteetateaateeatettattiggaaatgaetgigagegga 1006
 cgaagcatctggacctggtcatgctggtgacagaggtgatcgcctactcccactgctgca 1066
 ggcatttccacactctgagaatgaccatcttctgtctcgttctccctctgctcgttatgg 826
 cagggagaagtgaaatgacaacctcactagatacagttgagacctttggtaccacatcct 226
 346
 406
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 526
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 646
 706
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 166
 886
 946
 257
 497
 557
 677
 CAGGGAGAAGTGAAATGACAACCTCACTAGATACAGTTGAGACCTTTGGTACCACATCCT 137
 Gaps
reaction (RT-FCR) amplification of RNA isolated from inflamed, eosinophilic lung tissue obtained from Balb/c mice sensitised to ovalbumin. The amplification product was used as a probe to screen a human genomic library in vector EMBL3 SP6/T7 to obtain the hE
 AGTIGITIGAAGAGACTCTITGCAGTGCTCTTTACCCAGAGGATACAGTATATAGCTGGA
 tccatgctgtgtttgcccttcgagccoggactgtcacttttggtgtcatcaccagcatcg
 agttgtttgaagagactctttgcagtgctctttacccagaggatacagtatatagctgga
 GCAAGCATCTGGACCTGGTCATGCTGGTGACAGAGGTGATCGCCTACTCCCACTGCTGCA
 tgatgatcctcataaaatacaggaggctccgaattatgaccaacatctacctgctcaacc
 tggccatttcggacctgctcttcctcgtcacccttccattctggatccactatgtcaggg
 ggcataactgggtttttggccatggcatgtgtaagctcctctcagggttttatcacacag
 gottgtacagcgagatcttttcataatcctgctgacaatcgacaggtacctggccattg
 TCCATGCTGTGTTTGCCCTTCGAGCCCGGACTGTCACTTTTGGTGTCATCACCAGCATCG
 aggccatccggctcatttttgtcatcatggcggtgtttttcattttctggacaccctaca
 ö
 DB 32; Length 1689;
 Indels
 344 G;
 Score 1112; DB 32;
Pred. No. 0.00e+00;
0; Mismatches 2;
 416 C;
 Ä;
 93.2%;
ilarity 99.8%;
Conservative
 431
 Best Local Similarity
Matches 1114; Conser
 BP;
 1689
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 Query Match
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 tggaaagaaccagctctgtctctccatccacagagccggaactctctattgtgtttt 1246
TGAACCCGGTGATCTACGCCTTTGTTGGAGAGGGTTCCGGAAGTACCTGCGCCCACTTCT 1037
 167 cagggagaagtgaaatgacaacctcactagatacayttgagacctttggtaccacatcct 226
 actatgatgacgtgggctgctctgtgaaaaagctgataccagagcactgatggcccagt 286
 useful to
 Mammalian chemokine receptor-3 and related nucleic acids - useful to identify receptor inhibitors to treat inflammatory disease, e.g. autofinmune disorders, certain cancers, etc.

Claim 1: Page 109; 153pp; English.

C deasignated EoS L2 or C-C chemokine receptor (W03376), dessignated EoS L2 or C-C chemokine receptor (RR:3), involved in leukocyte migration associated with inflammation. It was isolated from a human genomic library in EMBL3 SP7/T7 vector by screening with a PCR fragment generated from eosinophil cDNA cusing degenerate primers (see also T3137-44). A CKR-3 cDNA clone (T31335) was also isolated, and a consensus sequence is given in T31336. The genomic and cDNA clones can be used for the prodn. of recombinant CKR-3 in host cells, or to design antisense sequences useful for treating inflammatory disease.

Sequence 1689 BP; 431 A; 416 C; 344 G; 497 T;
 Gaps
 TGGAAAGAACCAGCTCTGTCTCCATCCACAGCAGAGCGGAACTCTATTGTGTTTTT
 /*tag= c
/note= "base n at position 1291 is not identified
in the specification"
 positions
 ö
 15-NOV-1996 (first entry)
CC-chemokine receptor 3 genomic DNA,
CC-chemokine receptor 3; CXP-3; Eos-L2; inhibitor; antisense; antiinflammatory; eosinophil; ds.
 Length 1689;
 /*tag= b
/note= "KrR-3 genomic clone has CG at pos
1007-1008, coding for threonine (ACG) at
position 276; a cDNA clone has GC at
these positions, coding for serine (AGC)"
 2; Indels
 Post TW;
 Score 1112; DB 23;
Pred. No. 0.00e+00;
 aggtagatgcagaaattgcctaaagaggaaggacc 1282
 Ponath PD,
 0; Mismatches
 Location/Qualifiers
181..1248
 Mackay CR,
 19-JAN-1995; US-375199.
(BGHM) BRIGHAM & WOMENS HOSPITAL.
(LCHLL-) CHILDRENS MEDICAL CENT.
(LEUK-) LEUKOSITE INC.
Gerard CJ, Gerard NP, Mackay CR,
 ВР
 /*tag= a
1007..1008
 Jr 4
T31334 standard; DNA; 1689
T31334;
 Query Match 93.2%;
Best Local Similarity 99.8%;
Matches 1114; Conservative
 misc_difference 1291
 25-JUL-1996.
19-JAN-1996; U00608
 96-354528/35.
 P-PSDB; W03376
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to modulate leukocyte trafficking, e.g. for treatment of inflammation, tumours, viral infections, autoimmune diseases, etc. Claim 7; Page 48-50; English.

This sequence comprises a full-length cDNA coding for novel human chemokine receptor 88-2B (W27124), a G protein coupled receptor that is involved in leukocyte trafficking. The 88-2B cDNA was obtained from a macrophage cDNA library using 88-2B specific primers. A full-length clone (see T89161) for chemokine receptor 8BC (W27123) was also obtained. 8BC and 88-2B cDNAs can be used to produce recombinant polypeptides in transformed host cells for use in the treatment of e.g. atheroslerosis, rheumatoid arthritis, tumours, as thma, viral infection, AIDS and inflammatory conditions. Nucleic acid fragments can be used to isolate genomic sequences, to detect alleles of the gene (for diagnosis or in gene therapy), to alter receptor genetics to facilitate identification of modulators and to produce knockout animals, and earliesmes forms) to alter/study the sequence 1915 BP; 488 A; 470 C; 373 G; 584 T;
 tecatgetgttttgeeettegageeeggaetgteaettttgqtgteateaeeageateg
 cagggagaagtgaaatgacaacctcactagatacagttgagacctttggtaccacatcct
 ttgtgcccccgctgtactccctggtgttcactgtgggcctcttgggcaatgtggtggtgg
 tgatgatcctcataaaatacaggaggctccgaattatgaccaacatctacctgctcaacc
 tggccatttcggacctgctcttcctcgtcacccttccattctggatccactatgtcaggg
 ggcataactgggtttttggccatggcatgtgtaagctcctctcagggttttatcacacag
 autoimmune disease; therapy; diagnosis; leukocyte trafficking; G protein coupled receptor; human; ss.
 New nucleic acid encoding chemokine receptors 88-28
 inflammation
 Score 1110; DB 34;
Pred. No. 0.00e+00;
 0; Mismatches
 Human chemokine receptor 88-2B cDNA.
Chemokine receptor 88-2B; atherosclerosis;
tumour; asthma; viral infection; AIDS; infl
 Schweickart VL;
 Location/Qualifiers
362..1429
/*tag= a
 Query Match
93.0%;
Best Local Similarity 99.9%;
Matches 1116; Conservative
 (first entry)
 26-JUN-1997.
20-DEC-1996; U20759.
07-JUN-1996; US-661393.
20-DEC-1995; US-575967.
(ICOS-) ICOS CORP.
 Gray PW, Raport CJ,
WPI; 97-341689/31.
P-PSDB; W27124.
 WO9722698-A2
 Homo sapiens
 14-DEC-1997
 318
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 377
 526
 437
 586
 497
 646
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 206
 617
 994
 677
 737
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 797
 1098 TGGAAAGAACCAGCTCTGTCTCCATCCACAGCAGAGCCGGAACTCTCTATTGTGTTTT
 tggaaagaaccagctctgtctctccacacagcagagccggaactctctattgtgtttt
 tggccatttcggacctgctcttcctcgtcacccttccattctggatccactatgtcaggg
 agttgtttgaagagactctttgcagtgctctttacccagaggatacagtatatagctgga
 ggcatttccacactctgagaatgaccatcttctgtctcgttctccctctgctcgttatgg
 ACTATGATGACGTGGGCCTGCTCTGTGAAAAAGCTGATACCAGAGCACTGATGGCCCAGT
 TGGCCATTTCGGACCTGCTCTTCCTCGTCACCCTTCCATTCTGGATCCACTATGTCAGGG
 tecatgetgttttgcccttcgagcccggactgtcacttttggtgtcatcaccagcatcg
 tcacctgggggcctggcagtgctagcagctcttcctgaatttatcttctatgagactgaag
 BP
 JT 5
T85162 standard; cDNA; 1915
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Length 1915;

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467 197 527 257 587 317 647 377 707 437 767 497 827

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 Eosinophil eotaxin receptor; CC CKR3; human; treatment; dermatitis; atopic condition; allergic rhinitis; conjunctivitis; bronchial asthma; beta-chemokine receptor; viral infection; ss.
 947
 677
 737
 797
 857
 917
 887
 557
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 aggccatccggctcatttttgtcatcatggcggtgtttttcattttctggacaccctaca
 AGGCCATCCGGCTCATTTTTGTCATCATGGCGGTGTTTTTCATTTTCTGGACACCCTACA
 tgaacccggtgatctacgcctttgttggagagagttccggaagtacctgcgccacttct
 tecacaggeaettgeteatgeacetgggeagataeateeeatteetteetagtgagaage
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 TCACCTGGGGCCTGGCAGTGCTAGCAGCTCTTCCTGAATTTATCTTCTATGAGACTGAAG
 agttgtttgaagagactctttgcagtgctctttacccagaggatacagtatatagctgga
 GGCATTICCACACTCTGAGAATGACCATCTTCTGTCTCGTTCTCCCTCTGCTCGTTATGG
 atgiggctatccttctctctctatcaatccatcttatttggaaatgactgtgagcgga
 eotaxin receptor'
 07-MAY-1998 (first entry)
Human eosinophil eotaxin receptor CC CKR3 encoding cDNA.
 genomic DNA flanking
 aggtcagatýcagaaaattgcctaaagaaggaaggacc 1464
 eosinophil
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/note= "terminator region"
 Location/Qualifiers
 "human
 BP.
 T93601 standard; cDNA; 5099
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/note= "5'
3587..4654
 /*tag= b
/product= "]
4655..5099
 1..3586
/*tag=
 U06568.
GB-000894.
US-016158.
US-017113.
 06-NOV-1997.
24-APR-1997; U
17-JAN-1997; G
26-APR-1996; U
26-APR-1996; U
 misc_feature
 WO9741154-A1
 Homo sapiens
 misc_feature
 T93601;
 798
 1188
 1308
 1038
 1368
 1098
 1428
 828
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 678
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New isolated human eosinophil eotaxin receptor - used to develop products for treating and preventing atopic conditions e.g. allergic rhinitis, dermatitis, conjunctivitis and bronchial asthma claims 12, 13, 14; Pages 16-20; 51pp; English.

This cDNA encodes a human eosinophil eotaxin receptor. This 5099 base pair sequence comparises a 1065 base pair open reading frame encoding a sequence conjunctivity of the receptor protein, flanked by a 5, genomic DNA sequence and a 3' terminator region. This novel eosinophil eotaxin receptor fash and the confined and prevention of atopic conditions such as allergic the treatment and prevention of atopic conditions such as allergic rhinitis, dermatitis, conjunctivitis and bronchial asthma. Agents which block this eosinophil eotaxin receptor can be used for rhinitis, dermatitis, conjunctivitis and bronchial asthma. Agents which block this eosinophil eotaxin receptor can be used to prevent viral infected patients.
 3752
 tggccatttcggacctgctctcctcgtcacccttccattctggatccactatgtcaggg 3872
 4052
 4112
 4172
 3573 cagggagaagtgaaatgacaacctcactagatacagttgagacctttggtaccacatcct 3632
 197
 317
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 617
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 3633 actatgatgacgtgggcctgctctgtgaaaaagctgataccagagcactgatggcccagt
 tgatgatcctcataaaatacaggaggctccgaattatgaccaacatctacctgctcaacc
 4113 agttgtttgaagagactctttgcagtgctctttacccagaggatacagtatatagctgga
 ttgtgcccccgctgtactccctggtgttcactgtgggcctcttgggcaatgtggtggtgg
 318 TGGCCATTTCGGACCTGCTCTTCCTCGTCACCTTCCATTCTGGATCCACTATGTCAGGG
 ggcatttccacactctgagaatgaccatcttctgtctcgttctccctctgctcgttatgg
 1527 T;
 1;
 Score 1110; DB 38; Length 5099;
Pred. No. 0.00e+00;
0; Mismatches 0; Indels 1;
 Springer MS
 1013 G;
 Siciliano SJ,
 1171 C;
 1388 A;
 JA,
 Query Match 93.0%;
Best Local Similarity 99.9%;
Matches 1116; Conservative
MERCK & CO INC.
ty BL, Demartino J
-549685/50.
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5099 BP;
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 (W25941 and W25942). These (ant)agonists conditions associated with abnormal
 4412
 4472
 4532
 13-MAR-1998 (first entry)
Human CCKR3 chemokine receptor coding sequence.
CCF18 chemokine; mouse; primer; PCR; amplification; antagonist; human; abnormal physiology; development; anti-viral; probe; hybridisation; ss Homo sapiens.
 New isolated chemokine CCF8 and chemokine receptor CCKR3 - used to develop products useful for the diagnosis and treatment of conditions associated with abnormal physiology or development Claim 15; Page 60-62; 73pp; English.

This is the nucleotide sequence encoding a novel CCKR3 chemokine receptor isolated from a Th0-activated human T-cell CDNA library using the sequence amplified by primers T79097 and T79098 as a probe. The encoded protein can be used to screen for (ant)agonists that bind to the novel CCF18 Chemokines (W25941 and W25942). These (ant)agonist are useful in the treatment of conditions associated with abnormal physiology or development.
 ggcctgctctgtgaaaaagctgataccagagcactgatggcccagtttgtgccccgctg 120
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 Gaps
 1 atgacaacctcactagatacagttgagacctttggtaccacatcctactatgatgacgtg
TGAACCCGGTGATCTACGCCTTTGTTGCAGAGGTTCCGGAAGTACCTGCGCCCACTTCT
 tgaacccggtgatctacgcctttgttggagagagggttccggaagtacctgcgccacttct
 3;
 Length 1071;
 306 T;
 8; Indels
 3
 Wang
 1..1071
/*tag= a
/product= CCKR3 chemokine receptor
 242 G;
 36;
 aggtcagatgcagaaattgcctaaagaggaaggacc 4689
 Score 1034; DB 36;
Pred. No. 0.00e+00;
 Schall TJ,
 0; Mismatches
 292 C;
 Miyajima A,
 Location/Qualifiers
 231 A;
 79096 standard; cDNA; 1071
 Query Match 86.7%;
Best Local Similarity 99.0%;
Matches 1060; Conservative
 19-JUN-1997.
05-DEC-1996; U19139.
08-DEC-1995; US-567882.
 Hara T,
 (SCHE) SCHERING CORP
Dairaghi DJ, Hara T,
 1071 BP;
 Yoshimura A;
WPI; 97-332784/30.
P-PSDB; W25943.
 W09721812-A2
 Sequence
 T79096;
 198
 918
 4533
 4653
 92
 4473
 978
 4353
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 4413
 1038
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 RESULT
11D 11
DAC 17
DDE HI
DE HI
DE HI
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FT CI
FT CI
FT CI
PP WW
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 aaatacaggaggctccgaattatgaccaacatctacctgctcaacctggccatttcggac
 ctgctcttcctcgtcacccttccattctggatccactatgtcaggggggataactgggtt
 tttggccatggcatgtgtaagctcctctcagggttttatcacacaggcttgtacagcgag
 ATCTTTTTCATAATCCTGCTGACAATCGACAGGTACCTGGCCCATTGTCCATGCTGTGTTT
 gcagtgctagcagctcttcctgaatttatcttctatgagactgaagagttgtttgaagag
 GCAGTGCTAGCAGCTCTTCCTGAATTTATCTTCTATGAGACTGAAGAGTTGTTTGAAGAG
 actetttgcagtgetetttacccagaggatacagtatatagetggaggcatttccacact
 ACTCTTTGCAGTGCTCTTTACCCAGAGGATACAGTATATAGCTGGAGGCATTTCCACACT
 ctgagaatgaccatcttctgtctcgttctccctctgctcgttatggccatctgctacaca
 ctggacatgctggtgacagaggtgatcgcctactcccactggtgctgctcaatcccctc
 atctacycctttgttggagagaggttccggaagtacctgcgccacttcttccacaggcac
 ttgctcatgcacctgggcagatacatcccattccttcctagtgagagctggaaagaacc
 tactccctggtgttcactgtgggcctcttgggcaatgtggtggtggtgatgatcctcata
 Human MIP-lalpha/RANTES receptor protein coding sequence.
Human MIP-1 alpha/RANTES receptor; osteoporosis; pCCR; digestive
 ВР
 186154 standard; cDNA; 1065
186154;
 entry)
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062695;
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 Matches
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 Preparation of human MIP-1-alpha/RANTES receptor protein - used in reteatment of viral diseases, tumours, allergy, diabetes osteoporosis etc.

The treatment of viral diseases, tumours, allergy, diabetes calcaded on several protein the properties of the conference encodes human MIP-1 alpha/RANTES receptor protein alpha/regulated on activation, normal r cell captors protein alpha/regulated on activation, normal r cell expressed and secreted). The human MIP-1 alpha/RANTES receptor protein may be used in a method for the screening of human MIP-1 alpha/RANTES receptor coding sequence may be included in an expression vector, preferably pock, and used to transform a CHO cell for use in the same method. The receptor protein can provide a preventive and treating agent for viral diseases, infectious diseases, tumours, allergy, diabetes, central diseases, infectious diseases, tumours, allergy, diabetes, central diseases, chyperlipidaemia, hypercholesterolaemia, osteoporosis, digestive ulcers,
 ö
macrophage inflammatory protein 1 alpha; diabetes; central disease; regulated on activation, normal T cell expressed and secreted; allergy; affinity compound; expression vector; CHO cell; viral disease; infectious disease; tumour; hyperlipidaemia; hypercholesterolaemia; ss.
 218
 338
 429
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 ggcccaactgctgcccctctgtactccttggtatttgtcattggcctggttggaaacat 158
 249
 609
 CGTTATGGCCATCTGCTACACAGGAATCATCAAAAACGCTGCTGAGGTGCCCCAGTAAAAA 789
 Gaps
 GGCCCAGTTTGTGCCCCCGGCTGTACTCCCTGGTGTTCACTGTGGGGCCTCTTGGGCCAATGT
 ggccatcgtccacgccgtgtttgccttgcgggcacggaccgtcacttttggtgtcatcac
 cagcatcatcatttgggccctggccatcttggcttccatgccaggcttatacttttccaa
 CAGCATCGTCACCTGGGGCCTGGCAGTGCTAGCAGCTCTTCCTGAATTTATCTTCTATGA
 gacccaatgggaattcactcaccacacctgcagccttcactttcctcacgaaagcctacg
 GACTGAAGAGTTGTTTGAAGAGACTCTTTGCAGTGCTCTTTACCCAGAGGATACAGTATA
 agagtggaagctgtttcaggctctgaaactgaacctctttggggctggtattgcctttgtt
 TAGCTGGAGGCATTTCCACACTCTGAGAATGACCATCTTCTGTCTCGTTCTCCCTCTGCT
 ggtcatgatcatctgctacacagggattataaagattctgctaagacgaccaaatgagaa
 250 GGTGGTGGTGATGATCTCTCATAAAATACAGGAGGCTCCGAATTATGACCAACATCTACCT
 ttacacaggettgtacagegagatetttttcateateetgetgaegattgaeaggtaeet
 TCACACAGGCTTGTACAGCGAGATCTTTTTCATAATCCTGCTGACAATCGACAGGTACCT
 GGCCATTGTCCATGCTGTGTTTGCCCTTCGAGCCCGGACTGTCACTTTTGGTGTCATCAC
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 Score 428; DB 33; Length 1065;
Pred. No. 1.28e-295;
0; Mismatches 269; Indels 0
 300 T;
 253 G;
 284 C;
 228 A;
 08-JUL-1997.
28-DEC-1995; 342130.
28-DEC-1995; JP-342130.
(TAKE) TAKEDA CHEM IND LTD.
WPI: 97-399449/37.
P-PSDB; W25751.
 Query Match 35.9%;
Best Local Similarity 72.2%;
Matches 697; Conservative
 1065 BP;
 Homo sapiens.
 Sequence
 66
 190
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ö 1030 CCACTICTICCACAGGCACTIGCICAIGCACCIGGGCAGAIACAICCCAITCCIICCIAG 1089 849 818 878 696 938 gcagitgitccacaggcgigiggctgigcacctggitaaatggciccccttcctccgt 998 159 cctggtggtcctggtccttgtgcaatacaagaggctaaaaaacatgaccagcatctacct 218 caagtigaaggatgactgggtittiggtgatgccatgigtaagatccictctgggtitta 338 Claim 17; Fig 9: 90pp; Engglish.

The sequence is that of the C-C chemokine receptor gene which was isolated by PCR from PMA treated HL60 cells using PCR primers whose sequence was designed to correspond to conserved sequences in two transmembrane regions of known cytokine receptors. The sequence can be used in therapeutic or diagnostic compsns. for inflammation and other cytokine mediated disorders.

389 C; 361 G; 397 T; 99 ggcccaactgctgcccctctgtactccttggtatttgtcattggcctggttggaaacat 158 Gaps New C-C chemokine receptor and nucleic acid - are used to develop prods. for use in diagnosis and therapy of inflammation and other cytokine-mediated disorders AAAGTACAAGGCCATCGGCTCATTTTTGTCATGATGCGGTGTTTTTCATTTTCTGGAC cccctacaatttgactatacttatttctgttttccaagacttcctgttcacccatgagtg 850 ACCCTACAATGTGGCTATCCTTCTTCTATCAATCCATCTTATTTGGAAATGACTG tgagcagagcagacatttggacctggctgtgcaagtgacggaggtgatcgcctacacgca 910 TGAGCGGAGCAAGCATCTGGACCTGGTCATGCTGGTGACAGAGGTGATCGCCTACTCCCA ctgctgttgtcaacccagtgatctacgccttcgttggtgagaggttccggaagtacctgcg 970 CTGCTGCATGAACCCGGTGATCTACGCCTTTGTTGGAGAGAGGTTCCGGAAGTACCTGCG 190 GGCCCAGTTTGTGCCCCCCGCTGTACTCCCTGGTGTTCACTGTGGGCCTCTTGGGCAATGT ö 35.9%; Score 428; DB 11; Length 1495; 72.2%; Pred. No. 1.28e-295; 0; Mismatches 269; Indels ds. 30-JAN-1995 (first entry) C-C chemokine receptor DNA. C-C CKR-1; cytokine; inflammation; ВР Ë Schall standard; DNA; 1495 697; Conservative 04-NOV-1993; U10672. 10-NOV-1992; US-974025. (GETH ) GENENTECH INC HOruk R, Neote K, S WPI; 94-183505/22. Local Similarity 1150 TGTGTT 1155 tgggtt 1064 P-PSDB; R52749 Homo sapiens. WO9411504-A. 26-MAY-1994. Query Match 279 ద

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Murphy PM;
WPI: 97-392945/36.
 P-PSDB; W26588.
 Query Match
 Best Local
 019
 790
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 Matches
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GACTGAAGAGTTGTTTGAAGAGACTCTTTGCAGTGCTCTTTACCCAGAGGATACAGTATA
 AAAGTACAAGGCCATCCGGCTCATTTTTGTCATGATGACGGGTGTTTTTCATTTTCTGGAC
 occctacaatttgactatacttatttctgttttccaagacttcctgttcacccatgagtg
 CTGCTGCATGAACCCGGTGATCTACGCCTTTGTTGGAGAGGTTCCGGAAGTACCTGCG
 gcagttgttccacaggcgtgtggctgtgcacctggttaaatggctccccttcctccgt
 ggacaggctggagagggtcagctccacatctccctccacaggggagcatgaactctctgc
 1090 TGAGAAGCTGGAAAGAACCAGCTCTGTCTCCTCCATCCACAGCAGGCGGAACTCTTAT
 cagcatcatcatttgggccctggccatcttggcttccatgccaggcttatacttttccaa
 CAGCATCGTCACCTGGGCGTGCTAGCAGCTCTTCCTGAATTTATCTTATGA
 agagtggaagctgtttcaggctctgaaactgaacctctttgggctggtattgcctttgtt
 ggtcatgatcatctgctacacagggattataaagattctgctaagacgaccaaatgagaa
 CGTTATGGCCATCTGCTACACAGGAATCATCAAAACGCTGCTGAGGTGCCCCAGTAAAAA
 tgagcagagcagacatttggacctggctgtgcaagtgacggaggtgatcgcctacacgca
 TGAGCGGAGCAAGCATCTGGACCTGGTCATGCTGGTGACAGAGGTGATCGCCTACTCCCCA
 ttacacaggcttgtacagcgagatcttttcatcatcctgctgacgattgacaggtacct
 TCACACAGGCTTGTACAGCGAGATCTTTTCATAATCCTGCTGACAATCGACAGGTACCT
 gacccaatgggaattcactcaccacacctgcagccttcactttcctcacgaaagcctacg
 Human MIP-1 alpha/RANTES receptor gene. Macrophage inflammatory protein 1 alpha; MIP-1 alpha; reduced upon activation normal T expressed and secreted; RANTES; receptor; cytokine; antiinflammatory; inflammation; human; ss.
 28-JAN-1993; US-012988.
(USSH) US DEPT HEALTH & HUMAN SERVICES.
 Location/Qualifiers 63..1130
 BP.
 T90384 standard; DNA; 2156 T90384;
 21-JAN-1998 (first entry)
 /*tag=
 28-JAN-1993; 012988
28-JAN-1993; US-0129
 1150 TGTGTT 1155
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Presults with the detection of these cytokine(s) and their receptors, products for the detection of these cytokine(s) and their receptors, products for the detection of these cytokine(s) and their receptors, articularly in inflammatory processes claim 1: 60 lumn 11-16; 12pp; English.

This nucleic acid sequence encodes a claimed receptor for macrophage inflammatory protein-1 alpha (MIP-1 alpha) and requlated upon activation normal T expressed and secreted (RANIES) protein. Also claimed are: (1) a subsequence of the nucleic acid, having at least 12 contiguous nucleotides; (2) a cell transformed or transfected with the nucleic acid; and (3) purified MIP-1 alpha/RANIES receptor and polymorphisms in physiological samples. Collapha/RANIES receptor and polymorphisms in physiological samples. Collapha/RANIES is useful for moaltoning the levels of these cytokines in a patient. Such measurements are useful in following the antimital minfammatory effects of drugs and prospective usefulness of new antiminal minfammatory agents.
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 700
 190 GGCCCAGTTTGTGCCCCCGCTGTACTCCCTGGTGTTCACTGTGGGCCTCTTGGGCCAATGT 249
 310 GCTCAACCTGGCCATTTCGGACCTGCTCTCCTCGTCACCCTTCCATTCTGGATCCACTA 369
 caagttgaaggatgactgggtttttggtgatgccatgtgtaagatcctctctgggtttta 400
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 ggcccaactgctgccccctctgtactccttggtatttgtcattggcctggttggaaacat 220
 221 cctggtggtcctggtccttgtgcaatacaagaggctaaaaaacatgaccagcatctacct 280
 Gaps
 670 TAGCIGGAGGCATITCCACACICTGAGAATGACCAICTTCTGTCTCGTTCTCCCTCTGCT
 730 CGITAIGGCCAICIGCTACACAGGAATCAICAAAAACGCIGCTGAGGTGCCCCAGTAAAAA
 GACTGAAGAGTTGTTTGAAGAGACTCTTTGCAGTGCTCTTTACCCAGAGGATACAGTATA
 cocctacaatttgactatacttatttctgttttccaagacttcctgttcacccatgagtg
 AAAGTACAAGGCCATCCGGCTCATTTTTGTCATCATGGCGGTGTTTTTCATTTTCTGGAC
 octgaacctggccatttctgacctgctcttcctgttcacgcttcccttctggatcgacta
 370 TGTCAGGGGCCATAACTGGGTTTTTGGCCATGCGTGTGTAAGCTCCTCTCAGGGTTTTA
 ttacacaggcttgtacagcgagatcttttcatcatcctgctgacgattgacaggtacct
 cagcatcatcatttgggccctggccatcttggcttccatgccaggcttatacttttccaa
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 agagtggaagctgtttcaggctctgaaactgaacctctttgggctggtattgcctttgtt
 ggtcatgatcatctgctacacagggattataaagattctgctaagacgaccaaatgagaa
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 34; Length 2156;
 Pred. No. 1.28e-295;
0; Mismatches 269; Indels
 Score 428; DB
 th 35.9%;
Similarity 72.2%;
697; Conservative
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1125 CCACAGCAGAGCCGGAACTCTCT 1147
 1066 ccacaggagaacatgaactttct 1088
 G protein coupled receptor; ss.
Macaca sp.
W09722698-A2.
 BP
 T 12
T85163 standard; cDNA; 1059
 14-DEC-1997 (first entry)
 26-JUN-1997.
20-DEC-1996; U20759.
07-JUN-1996; US-661393.
20-DEC-1995; US-575967.
(ICOS-) ICOS CORP.
 WPI; 97-341689/31.
 P-PSDB; W27125
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 Claim 4; Page 21-22; 26pp; Japanese. This cDNA encodes a rat CC chemokine receptor. The receptor can be used to screen for novel binding compounds and for preparation of antibodies
 ctgctgtgtcaacccagtgatctacgccttcgttggtgagaggttccggaagtacctgcg 1000
 gcagttgttccacaggcgtgtggctgtgcacctggttaaatggctccccttcctctccgt 1060
 345
 405
ACCCTACAATGTGGCTATCCTTCTCTTCTATCAATCCATCTTATTTGGAAATGACTG 909
 aaaaaactgatgtaagagccttcggggctggactcctgcccccctgtactcttcgtgt 165
 AAAAAGCTGATACCAGAGCACTGATGGCCCCAGTTTGTGCCCCCGCTGTACTCCCTGGTGT 224
 TCACTGTGGGCCTCTTGGGCAATGTGGTGGTGGTGATGATCCTCATAAAATACAGGAGGC 284
 ttcaaaagcatgaccagcatatacctgttcaacctggctgtctctgatctggtcttccttt 285
 TCCGAATTATGACCAACATCTACCTGCTCAACCTGGCCATTTCGGACCTGCTCTTCCTCG 344
 tcctgctgacaattgacaggtacctggccattgtccatgcagtgttttccctgagggccc 465
 Gaps
 02-SEP-1997.
22-FRB-1996. 035192.
22-FRB-1996. JP-035192.
(TAKE) TAKEDA CHEM IND LTD.
(TAKE) TAKEDA CHEM IND LTD.
PPIS): W99179.
CC Chemokine receptor protein - useful to screen for novel binding
 tgagcagagcagacatttggacctggctgtgcaagtgacggaggtgatcgcctacacgca
 CTGCTGCATGAACCCGGTGATCTACGCCTTTGTTGGAGAGGTTCCGGAAGTACCTGCG
 ggacaggctggagaggtcagctccacatctccctccacaggggagcatgaactctgc
 ttatcattggagtggtaggcaatatcctggtgattctggtgctcatgcagcataggaggc
 tcactttacctttctggattgactacaagctgaaagacaactgggtttttggtgatgcca
 tgtgtaagcttctctctgggttttattacctgggcttatacagtgagatcttctttatca
 ö
 Length 1544;
 452 T;
 ch 30.1%; Score 359; DB 34; Length 154 I Similarity 68.3%; Pred. No. 3.21e-243; 671; Conservative 0; Mismatches 312; Indels
 qs
 19-DEC-1997 (first entry)

CDNA encoding rat CC chemokine receptor.

rat; CC chemokine receptor; screen; binding; ligand;
 330 G;
 347 C;
 Location/Qualifiers 33..1100
 T 11
T86839 standard; cDNA; 1544 BP
 415 A;
 /*tag=
 1544 BP;
 1121 tgggtt 1126
 TGTGTT 1155
 Rattus rattus
 antiserum
 19-DEC-1997
 J09227599-A.
 compounds
 Seguence
 Query Match
Rest Local S
tches 67
 1001
 1061
 1150
850
 970
 881
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 165
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1006 caaaatggctgccttctctctgtggaccaactagaaaggaccagttccttaactccat 1065
1065 CAGATACATCCTTCCTAGTGAGAAGCTGGAAAGAACCAGCTCTGTCTTCCAT 1124
 946 gtgagcggttccggaagtaccttcggcagctgtttcaaaggcatgtggctataccgctgg 1005
 1005 GAGAGAGGTTCCGGAAGTACCTGCGCCACTTCTTCCACAGGCACTTGCTCATGCACCTGG 1064
 645
 705
 706 ttctgctcagacgacccaatgagaagaaggcgaaagccgtgcgtctgatatttgctatta 765
 766 ogcttctattcttcctcctctggacccctacaatctgactgtatttgtttctgctttcc 825
 645 CTCTTTACCCAGAGGATACAGTATATAGCTGGAGGCATTTCCACACTCTGAGAATGACCA 704
 525 GGACTGTCACTTTTGGTGTCATCACCAGCATCGTCACCTGGGGCCTGGCCAGTGCTAGCAG 584
 New nucleic acid encoding chemokine receptors 88-2B and 88C - used to modulate leukocyte trafficking, e.g. for treatment of inflammation, tumours, viral infections, autoimmune diseases, etc. claim 47; Page 56-57; 65pp; English.
585 CICTICCIGAATITATCTICIATGAGACTGAAGAGTIGTTTGAAGAGACTCTTTGCAGTG
 646 tecttggactaattttacetetgttagteatgataatttgetaegeagggateateagaa
 825 TGGCGGTGTTTTCATTTTCTGGACACCCTACAATGTGGCTATCCTTCTCTCTTATC
 tgactgaagtgattgcctacacccactgttgtgtcaatccaatcatttatgtctttgtgg
 ctcatttccccgatgagagcctgaagacgtggaagaggtttcaggctctaaagctaaacc
 This sequence comprises a coding sequence for macaque chemokine receptor 88C (W27125). It was isolated from macaque genomic DNA
 Macaque chemokine receptor 88C.
Chemokine receptor 88C; atherosclerosis; rheumatoid arthritis;
tumour; asthma; viral infection; AIDS; inflammation;
autoimmune disease; therapy; diagnosis; leukocyte trafficking;
 Raport CJ, Schweickart VL;
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 cagggctgtgaggcttatcttcaccatcatgattgtttattttctcttgtgggctcccta 752
 812
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 catcaaccccatcatctcttgtcggggagaagttcagaaactacctcttagtctt 932
 217
 334
 394
 500
 454
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 514
 515 aaggtcttcattacacct-gcagctctcattttccatacagt-cagtatcaattctggaa 572
 gaattttcagacattaaagatggtcatcttggggctggtcctgccgctgcttgtcatggt 632
 catctgctactcgggaatcctgaaaactctgcttcggtgtcgaaacgagaagaagaggca 692
 852
 GAGCAAGCATCTGGACCTGGTCATGCTGGTGACAGAGGTGATCGCCTACTCCCACTGCTG 975
 tgcctccgctctactcactggtgttcatctttggttttgtgggcaacatactggtcgtcc 157
 201 rececceceraracrecerearareacrereaecererresecarareaegregaes 260
 Gaps
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using primers (see T85176-77) based on human 88C cDNA (see T85161). The macaque 88C nucleotide sequence is 98% identical to that of human 88C. 88C cDNAs can be used to produce recombinant polypeptides in transformed host cells for use in the treatment of e.g. atheroslerosis, rheumatoid arthritis, tumours, asthma, viral infection, AIDS and inflammatory conditions. Nucleic acid fragments can be used to isolate genomic sequences, to detect alleles of the gene (for diagnosis or in gene therapy), to alter receptor genetics to facilitate identification of modulators and to produce knockout animals, and (antisense forms) to alter/study the sequence 1059 BP; 249 A; 274 C; 227 G; 309 T;
 CATCTGCTACACAGGAATCATCAAAACGCTGCTGAGGTGCCCCCAGTAAAAA-AA-AGT-A
 ccatctctgacctgcttttccttcttactgtccccttctgggctcactatg-ctgctgcc
 CCATITCGGACCTGCTCTTCCTCGTCACCCTTCCATTCTGGATCCACTATGTCAGGGGGC
 c--agtgggactttggaaatacaatgtgtcaactcttgacagggctctattttataggct
 TGTACAGGGAGATCTTTTTCATAATCCTGCTGACAATCGACAGGTACCTGGCCATTGTCC
 CCTGGGGGCCTGGCAGTGCTAGCAGCTCTTCCTGAATTTATCTTCTATGAGACTGA-AGAG
 caacattgtccttctcctgaacaccttccaggaattctttggcctgaataattgcagtag
 381 ATAACTGGGTTTTTTGGCCATGGCATGTGTAAGCTCCTCTCAGGGTTTTATCACACAGGCT
 tottototggaatottottoatoatoctoctgacaatogataggtacotggotatogtoc
 cttgggtggtggtgtttgcctctcccaggaatcatctttaccagatctcagagag
 856 CAATGTGGCTATCCTTCTCTTCCTATCAATCCATCTTATTTGGAAATGACTGTGAGCG
 atgctgtgtttgctttaaaagccaggacagtcacctttgggggtggtgacaagtgtgatca
 Score 223; DB 34; Length 1059;
Pred. No. 8.30e-141;
0; Mismatches 280; Indels 10;
 18.7%;
Local Similarity 66.0%;
nes 563; Conservative
 Query Match
 916
 98
 441
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Tribuly, William Communication of Holy and a target cell fusion between HIV and a target cell fusion between HIV and a target cell fusion between HIV and a target cell claim 15; Fig 1C; 70pp; English.

This DNA sequence codes for a novel human macrophage-selective CC chemoxine receptor (see Wills) designated CCR5. It was isolated from a lambda gill cDNA library. Another isolated DNA molecule (see Troging) codes for an Alalizheu variant (see Wilsa) of CCR5. The susceptibility of human macrophages to HIV infection depends on cell surface expression of the human CD4 molecule and CCR5. CCR5 is a member of the 7-transmembrane superfamily of G-protein coupled cell surface molecules. It plays an essential role in the membrane fusion step of infection by some HIV isolates. The membrane fusion step of infection by some HIV isolates. The stablishment of stable, non-human cell lines and transgenic mammals having cells that coexpress human CD4 and CCR5 provides valuable tools for research of HIV infection. Antibodies that bind to CCR5, CCR5 variants, and CCR5-binding agents capable of blocking anti-HIV therapeutics for macrophage tropic strains of HIV.

Antisense oligonucleotides can also be used to inhibit expression of CCR5 in a cell.
 302
 c - agigggactttggaaatacaatgtgtcaactcttgacagggctctattttataggct 360
 440
 420
 421 atgctgtgttttgctttaaaagccaggacggtcacctttggggtggtgacaagtgtgatca 480
 tgcctccgctctactcactggtgttcatctttggttttgtgggcaacatgctggtcatcc 183
 ccatctctgacctgtttttccttcttactgtccccttctgggctcactatg-ctgccgcc
 tettetetggaatettetteateateeteetgaeaategataggtaeetggetgtegtee
 ..
α
 Score 220; DB 39; Length 1225;
Pred. No. 1.44e-138;
0; Mismatches 288; Indels 8
 354 T;
 DNA encoding human CC chemokine receptor 5 (CCR5).
CC chemokine receptor 5; CCR5; G-protein coupled receptor;
human immunodeficiency virus; HIV; CD4; AIDS; therapy;
 280 G;
 ပဲ
 (USSH) US DEPT HEALTH & HUMAN SERVICES.
Alkhatib G, Berger EA, Broder CC, Combadiere
Feng Y, Kennedy PE, Murphy PM;
P-PSDB; W238350/03.
 302 C;
 Location/Qualifiers
27..1085
 BP.
 289 A;
 T 13
T76920 standard; cDNA; 1225
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Best Local Similarity 65.3%;
Matches 556; Conservative
 (first entry)
 1036 CITCCACAGGCAC 1048
 28-MAY-1996; US-018508.
945
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 1225 BP;
 28-MAY-1997; U09586
 cttccaaaagcac
 Homo sapiens
 WO9745543-A2
 08-JUN-1998
 04-DEC-1997
 Sequence
 T76920;
933
 124
 184
 261
 244
 321
 303
 381
 361
 441
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Sequence
 Query Match
 Best Loca
Matches
 155
 215
 261
 275
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 333
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 P-PSDB; W23834.

To C chemokine receptor 5 polypeptide - used to inhibit membrane fusion between HIV and a target cell fusion between HIV and a target cell claim 15: Fig 1B; 70pp: English.

C claim 15: Fig 1B; 70pp: English.

C this DNA sequence codes for an Alal27Leu variant (see W23834) .

C a novel human macrophage selective CC chemokine receptor (see also W23835) that has been designated CCR5. It was isolated from a lambda gill cDNA library. The conservative amino acid substitution should not affect the biological activity of CCR5. The susceptibility of human macrophages to HIV infection depends on susceptibility of human macrophages to HIV infection depends on class surface expression of the human CD4 molecule and CCR5. CCR5 is a member of the 7-transmembrane superfamily of G-protein coupled cell surface molecules. It plays an essential role in the
 899
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 aacattgtccttctcctgaacaccttccaggaattctttggcctgaataattgcagtagc 839
600 aatttccagacattaaagatagtcatcttggggctggtcctgccgctgcttgtcatggtc
 atctgctactcgggaatcctaaaaactctgcttcggtgtcgaaatgagaagaaggcac
 680 CATTICCACACTCTGAGAATGACCATCTTCTGTCTCTGTTCTCCCTCTGCTTATGGCC
 857 AATGTGGCTATCCTTCTTCCTATCAATCCATCTTATTTGGAAATGACTGTGAGCGG
 tctaacaggttggaccaagctatgcaggtgacagagactcttgggatgacgcactgctgc
 481 cttgggtggtggtgtgtttgcgtctccccaggaatcatctttaccagatctcaaaaag
 561 CCTGGGGCCTGGCAGTGCTAGCAGCTCTTCCTGAATTTATCTTCTATGAGACTGAAGAGT
 541 aaggtetteattaeaeetgeageteteatttteeataeagt-eagtateaattetggaag
 917 AGCAAGCATCTGGACCTGGTCATGCTGGTGACAGAGGTGATCGCCTACTCCCACTGCTGC
 900 atcaacccatcatctatgcctttgtcggggagaagttcagaaactacctcttagtcttc
 08-JUN-1998 (first entry)
DNA encoding human CC chemokine receptor 5 (CCR5) A127L variant.
CC chemokine receptor 5; CCR5; G-protein coupled receptor;
human immunodeficiency virus; HIV; CD4; AIDS; therapy;
 ΰ
 04-DEC-1997.
28-MAY-1997; U09586.
28-MAY-1996; US-018508.
(USSH) US DEPT HEALTH & HUMAN SERVICES.
Rhattb G, Berger EA, Broder CC, Combadiere Feng Y, Kennedy PE, Murphy PM;
 Location/Qualifiers
 BP.
 standard; cDNA; 1255
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 1..1116
 1037 TTCCACAGGCAC 1048
 transgenic animal; ss.
 ttccaaaagcac 971
 W09745543-A2
 Homo sapiens
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membrane fusion step of infection by some HIV isolates. The establishment of stable, non-human cell lines and transgenic mammals having cells that coexpress human CRS provides to valuable tools for research of HIV infection. Antibodies that bind to CCR5, CCR5 variants, and CCR5-binding agents capable of blocking membrane fusion between HIV and target cells represent potential anti-HIV therapeutics for macrophage tropic strains of HIV. Antisense oligouncleotides can also be used to inhibit expression of CCR5 in a cell.
 Gaps
 ccag-tgggactttggaaatacaatgtgtcaactcttgacagggctctatttataggct
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 680 CATITICCACACTOTGAGAATGACCATOTTCTGTOTCTCTCCCTCTGCTCGTTATGGCC
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 agggctgtgaggcttatcttcaccatcatgattgtttattttctctctggggctccctac
 aacattgtccttctcctgaacaccttccaggaattctttggcctgaataattgcagtagc
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 AGCAAGCATCTGGACCTGGTCATGCTGGTGACAGAGGTGATCGCCTACTCCCACTGCTGC
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 Length 1255
 360 T;
 Indels
 289 G;
 Mismatches 288;
 1.44e-138;
 Score 220; DB 39;
 311 C;
 Pred. No.
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 18.4%;
ilarity 65.3%;
Conservative
 295
 ttccaaaagcac 1002
 1255 BP;
 Local Similarity
ses 556; Conser
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TTCCACAGGCAC 1048

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 If Human G-protein chemokine receptor, HDGNR10 - useful to identify (ant)agonists, for treatment of haematopoiesis, leukaemia, chronic and acute inflammation, rheumatoid arthiitis, etc.

SC laim 1; Page 44-46; 61pp; Bnglish.

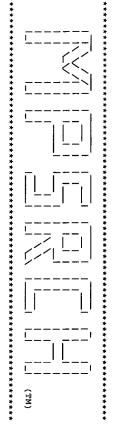
CA cDNA clone (T44042) codes for the novel human G-protein chemokine receptor HDGNR10 (W07602), a 7-transmembrane protein involved in Signal transduction. It was discovered in a cDNA library derived from human monocytes. The cDNA may be incorporated into a vector and utilised in the prodn. of recombinant HDGRN10, as a probe to detect mutations in the receptor gene associated with disease, and in gene therapy to treat conditions related to underexpression of the receptor e.g. to stimulate haematopoiesis, wound healing, or to treat solid tumours, autoimmune disease etc.

SQ Sequence 1414 BP; 350 A; 344 C; 313 G; 407 T;
 ery Match
st Local s
atches 55
 LT 15
T44042
T44042;
 Human G-protein chemokine receptor HDGNR10 cDNA. G-protein chemokine receptor; HDGNR10; signal transduction; haematopoiesis; leukaemia; inflammation; rheumatoid arthritis;
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 P-PSDB; W07602.
 06-JUN-1995; WO-U07173.
 WO9639437-A1.
12-DEC-1996.
 Homo sapiens
 26-FEB-1997 (first entry)
 416
 (HUMA-) HUMAN
 476
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 CCATTTCGGACCTGCTCCTCCTCGTCACCCTTCCATTCTGGATCCACTATGTCAGGGGGC
 standard; cDNA; 1414
 l Similarity
556; Conser
 Ruben
 18.4%;
larity 65.3%;
Conservative
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 GENOME
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/note= "5' primer site
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 Location/Qualifiers
259..1317
 /*tag= c
/note= "3' primer site
 /*tag=
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 Score 220; DB 25; 1
Pred. No. 1.44e-138;
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 BP.
 for
 for cDNA amplification"
 cDNA amplification'
 Length 1414;
 Indels
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 Gaps
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Search completed: Wed Dec 9 01:21:05 1998 Job time: 579 secs.

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Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

protein - protein database search, using Smith-Waterman algorithm

Tue Dec 8 13:12:59 1998; MasPar time 14.68 Seconds 825.479 Million cell updates/sec

Tabular output not generated.

Description: Perfect Score: (1-355) from USO8963656.pep 2765 >US-08-963-656-2

Sequence: MTTSLDTVETFGTTSYYDDV.....LERTSSVSPSTAEPELSIVF 355

Scoring table: PAM 150 Gap 11

Searched:

Post-processing:

107076 seqs, 34141958 residues

Minimum Match 0% Listing first 45 summaries

Database

pir56 1:pir1 2:pir2 3:pir3 4:pir4

Statistics: Mean 48.857; Variance 137.519; scale 0.355

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result Score 2751 2751 1874 1828 1771 1496 1496 14497 1433 1433 11433 11433 11433 11756 11079 11079 11079 11079 17079 17079 17079 17079 17079 17079 17079 Query Match 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25.57 25 Length DΒ G02436 A57237 I49341 A45177 JC2443 13450 A57160 A57160 JC4587 JC5067 152068 JC5068 B55735 A45611 A39445 G02653 A43113 S55594 Ħ I49339 SUMMARIES chemokine (C-C) recep macrophage inflammato CC chemokine receptor chemokine (C-C) recep G protein-coupled rec chemokine (C-C) recep MIP-1 alpha receptor chemokine (C-C) recep G protein-coupled rec hypothetical G-protein-coupled reclymphocyte-specific G G protein-coupled pep G protein-coupled pep G protein-coupled recinterleukin-8 recepto Description MIP-1 chemokine (C-C) recep C-C chemokine recepto alpha receptor recepto recepto recepto 1.74e-245 7.85e-195 1.11e-195 1.11e-195 1.11e-189 5.17e-189 5.17e-186 3.51e-170 6.85e-170 2.81e-151 1.17e-133 6.86e-123 6.86e-123 4.68e-95 7.73e-91 7.73e-91 6.20e-88 9.08e-80 0.00e+00 2.08e-252 0.00e+00 NO.

RESULT

| 45                    | 44     | 43                    | 42                   | 41                    | 40                    | 39                   | 38                    | 37                    | 36     | 35                    | 34     | <u>3</u> 3 | 32                    | 31                    | 30       | 29                    | 28                    | 27                    | 26                    | 25                    | 24                    |
|-----------------------|--------|-----------------------|----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|--------|-----------------------|--------|------------|-----------------------|-----------------------|----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 628                   | 628    | 634                   | 636                  | 637                   | 638                   | 640                  | 638                   | 642                   | 643    | 644                   | 647    | 647        | 649                   | 652                   | 652      | 658                   | 899                   | 685                   | 869                   | 704                   | 713                   |
| 22.7                  | 22.7   | 22.9                  | 23.0                 | 23.0                  | 23.1                  | 23.1                 | 23.1                  | 23.2                  | •      | •                     | 23.4   |            |                       |                       | 23.6     |                       |                       |                       |                       |                       |                       |
| 363                   | 363    | 359                   | 359                  | 359                   | 372                   | 359                  | 327                   | 359                   | 359    | 359                   | 374    | 359        | 359                   | 356                   | 350      | 359                   | 374                   | 353                   | 358                   | 352                   | 352                   |
| N                     | N      | N                     | N                    | Ν                     | N                     | N                    | N                     | 2                     | N      | N                     | 2      | N          | N                     | N                     | ν        | N                     | N                     | 2                     | 2                     | N                     | N                     |
| JC2435                | JC2543 | S15403                | 151372               | A48857                | S26667                | JH0621               | S56162                | JC1104                | JC2134 | JQ1516                | S32785 | S44425     | A48921                | S42096                | JN0621   | A42656                | S42628                | S28787                | A53752                | G00048                | A45747                |
| angiotensin II type 2 | II     | angiotensin II recept | angiotensin receptor | AT1 angiotensin II re | G protein-coupled rec | angiotensin receptor | MDCR15 protein - huma | angiotensin II recept | ΙI     | angiotensin II recept | 1dno   |            | interleukin-8 recepto | interleukin-8 recepto | oup]     | angiotensin II recept | G-protein coupled rec | neuropeptide Y/peptid | interleukin-8 recepto | fusin (LESTRA) - crab | leukocyte-derived sev |
| 6.68e-68              | 8e-6   | .25e-6                | .78e-                | 3.44e-69              | .47e-6                | •                    |                       | ē                     | .75e-7 | .42e-                 | .27e-  | .27e-7     | •                     | .44e-                 | 2.44e-71 | 3.36e-72              |                       | .41e-7                | 5.91e-78              | 8.06e-79              | 4.05e-80              |

## ALIGNMENTS

| Qy 301 YAFVGE | Db 301 YAFVGE                                               | Oy 241 IFVIMA                                                    | Db 241 IFVIMA                                                    | Qy 181 TLCSAL                                                    | Db 181 TLCSAI                                                    | Oy 121 IFFIII                                                    | Db 121 IFFIII                                                    | Qy 61 KYRRLE                                                     | Db 61 KYRRLF                                                     | Qy 1 MTTSLE                                                     | Db 1 MTTSLE                                                     | Query Match Best Local Similarity Matches 354; Conse                                                                       | ##Cross-references ##cross-references ##cross-references                                               | ##molecule_type | #accession | #submission | #authors     | ACCESSIONS<br>REFERENCE | DATE                                                                | ORGANISM                      | TITLE                            |                          |
|---------------|-------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------|------------|-------------|--------------|-------------------------|---------------------------------------------------------------------|-------------------------------|----------------------------------|--------------------------|
|               | YAFVGERFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF 355 | IFVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERTKHLDLVMLVTEVIAYSHCCMNPVI 300 | IFVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERTKHLDLVMLVTEVIAYSHCCMNPVI 300 | TLCSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKKKAIRL 240 | TLCSALYPEDTVYSWRHEHTLRWTIFCLVLPLLVWAICYTGIIKTLLRCPSKKKYKAIRL 240 | IFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEE 180 | IFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEE 180 | KYRRLRIMTNIYLLNLAISDLLELVTLPEWIHYVRGHNWVFGHGMCKLLSGEYHTGLYSE 120 | KYRRIRIMINIYLLNLAISDLLFLYTLPFWIHYYRGHNWYFGHGMCKLLSGFYHTGLYSE 120 | MTTSLDTVETFGTTSYYDDVGLLCEKADTRALMAQFVPPLYSLVFTFGLLGNVVVVMILI 60 | MTTSLDTVETFGTTSYYDDVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILI 60 | 99.5%; Score 2751; DB 2; Length 355; nilarity 99.7%; Pred. No. 0.00e+00; Conservative 0; Mismatches 1; Indels 0; Gaps · 0; | eferences EMBL:U49727; NID:gl477560; PID:gl477561<br>#length 355 #molecular-weight 41057 #checksum 477 |                 | GU2436     | ርተ          | Ponath, P.D. | G02436<br>H01272        | 21-Dec-1990 #sequence_revision 06-Jun-1997 #text_change 06-Jun-1997 | iomo sapiens #common_name man | C-C chemokine receptor 3 - human | (CO) = +::>) ()))))))))) |

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I49341
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J. Biol. Chem. (1995) 270:16491-16494
Cloning and functional expression of a human eosinophil
Chemokine receptor.
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MIP-1 alpha receptor like-2 - mouse
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02-Jul-1996 #sequence_revision 02-Jul-1996 #t
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29-Aug-1997
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#journal J. Exp. Med. (1993) 177:1421-1427
#title Structure and functional expression of the human macrophage
#title inflammatory 1 alpha (MIP-lalpha)/RANTES receptor.
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 Gao, J.L.; Murphy, P.M.
J. Biol. Chem. (1995) 270:17494-17501
Cloning and differential tissue-specific expression of the mouse beta chemokine receptor-like genes, including the gene for a functional macrophage inflammatory protein-l
 A45177; I55671
A45177
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 A45177
 Molecular cloning, functional expression, characteristics of a C-C chemokine rece
 Neote, K.; DiGregorio,
Cell (1993) 72:415-425
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 Gao, J.L.; Murphy, p.M.
J. Biol. Chem. (1995) 270:17494-17501
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J. Mol. Biol. (1995)
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10-Apr-1996 #sequence_revision 19-Apr-1996 #text_c
 Parmentier, M. Biochemistry (1996) 35:3362-3367 Molecular cloning and functional
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 Yamagami, S.; Tokuda, Y.; Ishii, K.; Tanaka, H.; Endo, Biochem. Biophys. Res. Commun. (1994) 202:1156-1162 cDNA cloning and functional expression of a human monoc chemoattractant protein 1 receptor.
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 141
 142
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Y #length 356 #molecular-weight 40934 #checks
 "*status preliminary; translated from GB/EMBL/DDBJ##molecule_type DNA
 311
 315
 193
 133
 140
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 197
 81
 82
 21
 22
 73
 84
 14
 21
 10
 ALRARTVTFGIISSIITWVLAALVSIPCLYVF-KSQMEFTYHTCRAILPRKSLIRFLRFQ
 GFLCFSINVRAFGITVPTPLYSLVFIIGVIGHVLVVLVLIQHKRLRNMTSIYLFNLAISD
 YLSVFFRKHITKRFCKQCPVFYRETVDGVTSTNTPSTGEQEVS 357
 YSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPS-KKKYKAIRLIFVIMAVEFIF
 LAIVHAVFALKARTVIFGVVTSVITWLVAVFASVPGIIFTKCQKEDSVYVCGPYFP--R- 196
 LULAISDLLELVTLPEWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRY 132
 LLNLAISDLLFLITLPLWAHSA-ANEWVFGNAMCKLFTGLYHIGYFGGIFFIILLTIDRY 139
 LVELSTLPFWVDYIMKGDWIFGNAMCKFVSGFYYLGLYSDMFFITLLTIDRYLAVVHVVF 141
 GLLCEKADTRALMAQFVPPLYSLVFTFGLLGNVVVVMILIKYRRLRIMINIYLLNLAISD
 YLRHFFHRHLLMHLGRYIPFLPSEKLE-RTSSVSPSTAEPELS
 WTPYNVAILLSSYOSILEG-NDCERTKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRK 310
 WTPYNIVILLNTFQEF-FGLSNCESTSQLDQATQVTETLGMTHCCINPIIYAFVGEKFRR 314
 LAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEETLCSALYPEDTV 192
ALRARTVTFGVITSIVTWGLAVLAALP-EFIFYETEELFEETLCSALYPEDTVYSWRHFH
 LLFLVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVF
 -GWNNEHTIMRNILGLVLPLLIMVICYSGILKTLLRCRNEKKRHRAVRVIFTIMIVYFLF 255
 183;
 similarity 53.4%;
 Gao, J.L.; Murphy, P.M.
J. Biol. Chem. (1995) 270:17494-17501
Cloning and differential tissue-specific expression of three mouse beta chemokine receptor-like genes, including the gene for a functional macrophage inflammatory protein-l
 149340 #type complete
MIP-1 alpha receptor like-1 - mouse
#formal_name Mus musculus #common_name house mouse
02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change
28-Feb-1997
 I49340
I49339
 149340
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 Conservative
 Conservative
 alpha receptor
 1-356 ##label RES
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#binding_site carbohydrate (Asn) (covalent) #status
predicted\
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 80
 199
 81
 N
 8
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44-68
49-99
115-136
154-178
208-226
244-265
292-309
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 SUMMARY
 #map_position KEYWORDS
 GENETICS
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 ACCESSIONS
REFERENCE
 ORGANISM
 ALTERNATE_NAMES
 RESULT
 Query Match
Best Local S
Matches 16
 #journal Proc. Natl. Acad. Sci. U.S.A. (1994) 91:2752-2756
#title Molecular cloning and functional expression of two monoc chemoattractant protein 1 receptors reveals alternate splicing of the carboxyl-terminal tails.
#cross-references_MUID:94195821
 32-277,113-190
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 193
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 260
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 73
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 11
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 TSYYD-DVGLLCEKADTRALMAQFVPPLYSLVFTFGLLGNVVVVMILIKYRRLRIMINIY 72
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 LLMHLGRYIPFLPSEKLERTSSVSPSTAEPELS
 TAITLPOWLPFLSEDRAQRASARLPSTVEIETS
 TERMITECLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRLIEVIMAVEETEWIPYNVAI
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 -GWNNEHTIMRNILGLVLPLLIMVICYSGILKTLLRCRNEKKRHRAVRVIFTIMIVYFLF 255
 138450 #type complete
Chemokine (C-C) receptor 2, splice form A -
C-C CKR-2; monocyte chemoattractant protein
monocyte chemotactin 1 receptor
#formal_name Homo sapiens #common_name man
16-Feb-1996 #sequence_revision 16-Feb-1996
 3p21-3p21
alternative splicing; G protein-coupled
 I38450
 Charo, I.F.; Myers, S.J.; A.J.; Coughlin, S.R.
 GDB: CMKBR2
 #length 374
 glycoprotein; transmembrane protein
 29-Aug-1997
 #disulfide_bonds #status predicted
jth 374 #molecular-weight 41914 #
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predicted\
 #domain transmembrane
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Pred. No. 3.51e-174;
72; Mismatches 50;
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 Herman, A.; Franci,
 353
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 predicted
 Length 374;
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 Indels
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 A
 receptor;
 #text_change
 #label
#label
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#label
#label
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 C.; Connolly,
 receptor;
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TM2/
TM3/
TM4/
TM5/
TM6/
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 319
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FEATURE
40-65
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REFERENCE
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 #map_position 3p21-3p21
KEYWORDS G protein
 GENETICS
 ORGANISM
 ALTERNATE_NAMES
 76-97
112-133
151-175
208-226
243-264
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29-276,110-187
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 321
 145
 MARY
 183,194
 #gene
 #accession
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 246
 183
 187
 123
 127
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 ##cross-references GB:X85740
 63
 8
 / Match 45.4%;
Local Similarity 45.9%;
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 w
 Q
 12
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 TTLDE-SIYSNYYLYESIPKPCTKEGIKAFGELFLPPLYSLVFVFGLLGNSVVVLVLFKY 67
 FVMLMSIDRYLAIVHAVFSLRARTLTYGVITSLATWSVAVFASLPGFLFSTCYTERNHTY 186
 KRLRSMTDVYLLNLAISDLLEVESLPFWGYYAADQ-WVFGLGLCKMISWMYLVGFYSGIF 126
 CSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRLIF
 CKTKYSLNST-TWKVLSSLEINILGLVIPLGIMLFCYSMIIRTLQHCKNEKKNKAVKMIF 245
 FIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEETL
 TSLDTVETFGTTSYYDDVGLLCEKADTRALMAQFVPPLYSLVFTFGLLGNVVVVMILIKY 62
 Power, C.A.; Meyer, A.; Nemeth, K.; Bacon, K.B.; Hooger A.J.; Proudfoot, A.E.I.; Wells, T.N.C. J. Biol. Chem. (1995) 270:19495-19500
Molecular cloning and functional expression of a novel chemokine receptor cDNA from a human basophilic cell
 GDB: CMKBR4
 A57160
 #formal_name Homo sapiens #common_name man 10-Nov-1995 #sequence_revision 10-Nov-1995 _15_Aug-1997
 C-C CKR-4
 A57160 #type complete chemokine (C-C) receptor
 #length 360
 A57160
 A57160
 Conservative
 protein-coupled receptor;
 transmembrane
 #binding_site phosphate (Thr) (covalent) (by protein
kinase C) #status predicted
 kinase II) *status predicted\
*binding_site phosphate (Ser) (covalent) (by protein kinase C) *status predicted\
*binding_site carbohydrate (Asn) (covalent) *status
 source clone K5-5
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 preliminary; not compared with conceptual translation
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 #domain transmembrane
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 Score 1256; DB 2; 1
Pred. No. 6.85e-160;
83; Mismatches 102;
 protein
 receptor 4
 #status predicted
 #status predicted
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 glycoprotein; phosphoprotein;
 predicted
 predicted
 Length 360;
 Indels
 K.B.; Hoogewerf,
 #text_change
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TM2/
 TM4/
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ORGANISM ALTERNATE\_NAMES

JC5067 #type complete
G protein-coupled receptor CKR-L1 - human
chemokine receptor-like protein TER1; GPR#formal\_name Homo sapiens #common\_name man

GPR-CY6

man

ENTRY

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#gene
KEYWORDS
FEATURE
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 ACCESSIONS
 Query Match
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Matches 15
 321
 72,202,350
 2,183,194
 #journal
 #accession
 #authors
 191
 195
 131
 ##residues 1-360 ##label HOO
##cross-references EMBL:X90862; NID:gl167851; PID:e195632; PID:gl167852
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 311
 306 FLGEKFRKYILQLFKTCRGLFVLCQYCGLLQIYSADTPSSSYTQSTMDHDL
 314 YITQLFRTCRGPLVLCKHCDFLQVYSADMSSSSYTQSTVDHDF
 243 VIMAVFFIFWTPYNVAILLSSYQSILFGNDCERTKHLDLVMLVTEVIAYSHCCMNPVIYA 302
 ##molecule_type mRNA
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 RYLAIVHAVFSLKARTLTYGVITSLITWSVAVFASLPGLLFSTCYTEHNHTYCKTQYSVN 194
 YNSYYFYESMPKPCTKEGIKAFGEVFLPPLYSLVFLLGLEGNSVVVLVLFKYKRLKSMTD
 FVGERFRKYLRHFFHR-HLLMHLGRYIPFLPSEKLE-RTSSVSPSTAEPEL
 YLRHFFHR-HLLMHLGRYIPFLPSEKLERTSSV-SPSTAEPEL
 FWTPYNVAILLSSYQSILFGNDCERTKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRK
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 RYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEETLCSALYPED
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 43.3%;
Similarity 43.7%;
 cc ckr-4
glycoprotein; phosphoprotein; receptor; thymus
 POWER, C.A.
Biophys. Res. Commun. (1996) 218:337-343
Molecular cloning of murine CC CKR-4 and high affinit
binding of chemokines to murine and human CC CKR-4
 JC4587 #type complete
chemokine (C-C) receptor 4 - mouse
#formal_name Mus musculus #common_name house mouse
08-Mar-1996 #sequence_revision 19-Apr-1996 #text_change
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 JC4587
 Hoogewerf, A.J.; Black, D.; Proudfoot, A.E.I.; Wells, T.N.C.;
 Conservative
 12-Dec-1997
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*binding_site phosphate (Ser) (covalent) (by casein kinase II) #status predicted\
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*binding_site phosphate (Thr) (covalent) (by protein kinase C) #status predicted\
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92; Mismatches 97;
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 351
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73-94
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147-171
 ACCESSIONS
REFERENCE
#authors
 ##residues 1-355 ##label ZAB
##cross-references EMBL:279782; NID:g1668735;
REFERENCE H01714
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 SUMMARY
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 200-222
239-260
 #journal
#title
 #accession
 #submission
 #accession
 authors
 #submission
 #authors
 accession
 120
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 120
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 EIFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFE 179
 SMFEITLMSVDRYLAVVHAVYALKVRTIRMGTTLCLAVWLTAIMATIPLLVFYQVASE-D 178
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 VIYAFVGEKFKKHLSEIFQKSCSQIFNYLGRQMPRESCEK 337
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 MTTSLDTVETFGTTSYYDDV-GLLCEKADTRALMAQFVPPLYSLVFTFGLLGNVVVVMIL 59
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 Similarity
133; Conser
 TER1
 submitted to the EMBL Data Library, January 1996 G02387
 Napolitano, M.; Zingoni, A.; Bernardini, G.; Spinetti, G.; Rocchi, M.; Santoni, A. submitted to the EMBL Data Library, June 1996 G02776
 31-Jan-1997 #sequence_revision 31-Jan-1997 #text_change 10-Sep-1997
JC-5067; G02776; G02387
JC5067
Zaballos, A.; Varona, R.; Gutierrez, J.; Lind, P.; Marq
 Bonner, T.I.
 JC5067
 Biochem. Biophys. Res. Commun. (1996) 227:846-853 Molecular cloning and RNA expression of two new h
 #length 355
 H01154
 Conservative
 ດ
 protein-coupled receptor;
 chemokine receptor-like genes.
 #domain transmembrane #status predicted #la
#domain transmembrane #status predicted #la
#domain transmembrane #status predicted #la
#domain transmembrane #status predicted #la
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97; Mismatches 102;
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 Length 355;
 Indels
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 8
 P.; Marquez,
 Gaps
 TM1/
TM2/
TM3/
TM4/
TM5/
TM6/
 238
 6,
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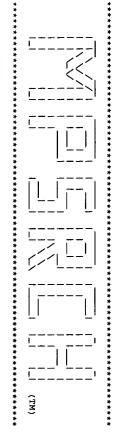
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ACCESSIONS
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#authors
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 DATE
 ORGANISM
 KEYWORDS
 Query Match
Best Local
 Matches
 #authors Harrison, J.K.; Barber, C.M.; Lynch, K.R.
#journal Neurosci. Lett. (1994) 169:85-89
#title cDNA cloning of a G-protein-coupled receptor expressed
#title spinal cord and brain related to chemokine receptors.
#cross-references MJID:94323113
 #accession
 310
 197
 190
 134 LAANSMNNRTVÕHGYTISLGVWAAAILVASPQEMETKRKD--NECL-GD-YPEVLQEIWP
317
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 140;
 38.8%;
Similarity 45.2%;
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 158186 #type complete
hypothetical G-protein coupled receptor - rat
#formal_name Rattus norvegicus #common_name Norway rat
26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change
30-May-1997
 I58186
 158186
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 319
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 Gaps
 189
 74
 316
 76
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 rat
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Wed Dec

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Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

ch\_pp protein - protein database search, using Smith-Waterman algorithm Tue Dec 8 13:16:24 1998; MasPar time 21.54 Seconds 820.602 Million cell updates/sec

Tabular output not generated.

Scoring table: Sequence: Description: Perfect Score: PAM 150 Gap 11 >US-08-963-656-4 (1-355) from US08963656.pep 2760 1 MTTSLDTVETFGTTSYYDDV.....LERTSSVSPSTAEPELSIVF 355

Searched: 165420 segs, 49795644 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database: sptremb16

1:sp\_archea 2:sp\_bacteria 3:sp\_fungi 4:sp\_human
5:sp\_invertebrate 6:sp\_mammal 7:sp\_mhc 8:sp\_organelle
9:sp\_phage 10:sp\_plant 11:sp\_rodent 12:sp\_unclassified
13:sp\_vertebrate 14:sp\_virus

Statistics: Mean 49.358; Variance 131.120; scale 0.376

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| 45                    | 44                     | 43                     | 42                  | 41                     | 40                     | 39                     | 38                     | 37                     | 36                    | 35                     | 34                     | <b>ω</b>               | 32                    | 31                     | 30                  | 29                     | 28                     | 27                     | 26                     | 25                     | 24                     | 23     | 22                     | 21                     |
|-----------------------|------------------------|------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|------------------------|------------------------|------------------------|-----------------------|------------------------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--------|------------------------|------------------------|
| 382                   | 387                    | 402                    | 431                 | 438                    | 441                    | 448                    | 455                    | 460                    | 472                   | 479                    | 491                    | 495                    | 499                   | 499                    | 510                 | 518                    | 555                    | 699                    | 712                    | 717                    | 719                    | 719    | 735                    | 801                    |
| 13.8                  | 14.0                   | 14.6                   | 15.6                | 15.9                   | 16.0                   | 16.2                   | 16.5                   | 16.7                   | 17.1                  | 17.4                   | 17.8                   | 17.9                   | 18.1                  | 18.1                   |                     | 18.8                   |                        |                        | 25.8                   | •                      |                        | 26.1   | 26.6                   | 9                      |
| 168 11                |                        | 334 11                 |                     |                        |                        | 303 13                 |                        |                        | 374 13                |                        | 381 13                 |                        |                       |                        |                     | 373 13                 |                        | 352 6                  | 352 6                  | 360 11                 |                        | 360 11 | 415 4                  | 382 11                 |
| 035715                | 054799                 | Q61125                 | 015132              | 070129                 | 015218                 | P70058                 | 043494                 | Q64166                 | 057466                | Q92158                 | 042402                 | 035811                 | P79960                | Q62973                 | 042324              | 057585                 | 070526                 | 062747                 | 046428                 | 035457                 | 060835                 | 070171 | 015185                 | 009027                 |
| SOMATOSTATIN RECEPTOR | NEUROMEDIN B RECEPTOR. | BRADYKININ RECEPTOR, B | P2Y5-LIKE RECEPTOR. | ANAPHYLATOXIN C5A RECE | G-PROTEIN COUPLED RECE | ANGIOTENSIN RECEPTOR R | G PROTEIN-COUPLED RECE | ADRENOMEDULLIN RECEPTO | G PROTEIN COUPLED P2Y | ANGIOTENSIN II RECEPTO | ORNITHOKININ RECEPTOR. | G-PROTEIN COUPLED RECE | MESENCHYME-ASSOCIATED | CHEMOKINE RECEPTOR LCR | MU-OPIOID RECEPTOR. | OPIOID RECEPTOR HOMOLO | BRADYKININ B2 RECEPTOR | CHEMOKINE RECEPTOR CXC | ALPHA-CHEMOKINE RECEPT | PUTATIVE BETA CHEMOKIN | CXCR4 GENE ENCODING RE | L-CCR. | G PROTEIN-COUPLED RECE | CCR10-RELATED RECEPTOR |
| 3.03e-35              | 5.79e-36               | 3.97e-38               | .43e-4              | 2.31e-43               | 8.40e-44               | 7.94e-45               | . 4 6e                 | 1.38e-46               |                       | .18e-4                 | .67e-                  | .40e-                  | 2.40e-52              | .40e                   | 5.59e-54            | 3.61e-55               | .08e-                  | 1.76e-82               | 1.82e-84               | 3.13e-85               | 1.55e-85               | .55e   | 5.51e-88               | .03e                   |

#### ALIGNMENTS

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 ery Match
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 018770 PRELIMINARY;
018770;
01-JAN-1998 (TREMBLREL 05,
01-JAN-1998 (TREMBLREL 06,
01-JUN-1998 (TREMBLREL 06,
 ZHANG L.,
HO D.D.;
 PAN TROGLODYTES (CHIMPANZEE).
EUKARYOTA; METAZOA; CHORDATA;
EUTHERIA; PRIMATES.
 AIDS RES. HUM. RETROVIRUSES EMBL; AF011538; G2305194; - FFAM; PF00001; 7tm_1.
 SEQUENCE FROM N.A.
STRAIN=MACCR5-140A;
 SEQUENCE
 JIANG Y., SALAFRANCA M.N., ADHIKARI S., XIA Y., FENG L., DEFILDER C.M., PENNELL N.A., STREIT W.J., HARRISON J.K.; J. NEUROLIMUNOL. 0.0-0(1998).
EMBL; AF003954; G2897073; •
 STRAIN-WISTAR;
 SEQUENCE FROM N.A
 EUTHERIA; METAZOA; CHORDATA; EUTHERIA; RODENTIA.
 303
 307
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 RECEPTOR (FRAGMENT).
 CSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRLIF
 CSPRYPEGEEDSWKRFHALRMNIFGLALPLLIMVICYSGIIKTLLRCPNKKKKKAIQLIF
 FIILLTIDRYLAIVHAVLALRARTVTFATITSIITWGFAVLAALPEFIFHESQDNFGDLS
 RKLQIMTNIYLLNLAISDLLFLFTVPFWIHYVLWNEWGFGHCMCKMLSGLYYLALYSEIF 126
 LDTV-ETFGTTSY-YDDVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKY 62
 LKTVVETFETTPYEYEWAPP-CEKVSIRELGSWILLPPLYSLVFIVGLLGNMMVVLLILKY
 FVGERFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF 355
 FIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEETL
 RRLRIMTNIYLLNLAISDLLFLVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIF
 Similarity
 CARRUTHERS
352 AA;
 359 AA;
 69.8%;
llarity 68.8%;
Conservative
 352
 TISSUE-SPLEEN;
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 CHORDATA;
 41643 MW; C1FC70CA CRC32;
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 Score 1926; DB 11; Pred. No. 2.35e-275;
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 VERTEBRATA;
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 Mismatches 52;
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 SEQUENCE FROM N.A. CHEN Z., GETTIE A., H VIROLOGY 0:0-0(1998). EMBL; AF051904; G3135
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062745;
 01-AUG-1998 (TREMBLREL. 07, CREATED)
01-AUG-1998 (TREMBLREL. 07, LAST SEQUENCE UPDATE)
01-AUG-1998 (TREMBLREL. 07, LAST SEQUENCE UPDATE)
01-AUG-1998 (TREMBLREL. 07, LAST SEQUENCE
CHEMOKINE RECEPTOR CCR5.
CERCOCEBUS TORQUATUS ATYS (RED-CROWNED MANGABEY) (SOOTY MANGABEY).
EUKHKYOTA, METAKOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
 SEQUENCE
 316
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 320 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI
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 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 KIVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLL
 IAKRECKCCSIFQQEAPERASSVYTRSTGEQEISV
: ::: : : | ||:||| : ||:|
 ARTVTFGVVTSVITWVVAVFASLPGIIFTRSQREGLHYT-CSPHFPYSQ-YQFWKNFQTL 196
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALK
 LSSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH
 LNTFQEF-FGLNNCSSCNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH 315
 ARTVTFGVITSIVTWGLAVLAALPEFIFYETE-ELFEETLCSALYPEDTVYS-WRHFHTL
 ARTVTFGVVTSVITWVVAVFASLPGIIFTRSQREGLHYT-CSSHFPYSQ-YQFWKNFQTL
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALK
 IAKRFCKCCSIFQQEASERASSVYTRSTGEQEISV
 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH
 LSSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH
 185;
 Similarity
 352 AA;
 54.2%;
larity 55.2%;
Conservative
 PRELIMINARY;
 Conservative
 G3135300;
 54.4%;
 40460
 HO D.D.,
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 Score 1495; DB 6;
Pred. No. 7.95e-207;
84; Mismatches 57;
 Score 1502; DB 6;
Pred. No. 6.19e-208;
83; Mismatches 58;
 MARX P.A.;
 E6A5AA07
 352
 CRC32;
 353
 350
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 SEQUENCE FROM N.A., HO D.D. CHEN Z., GETTIE A., HO D.D. VIROLOGY 0:0-0-(1998).
EMBL; AF051905; G3135302; -
SEQUENCE 352 AA; 40489 M
 ULT 6
062746 PRELIMINARY;
062746: (TREMBLREL 0
01-AUG-1998 (TREMBLREL 0
01-AUG-1998 (TREMBLREL 0
01-AUG-1998 (TREMBLREL 0
 062744;
01-AUG-1998 (TREMBLREL. 07, CREATED)
01-AUG-1998 (TREMBLREL. 07, LAST SEQUENCE UPDATE)
01-AUG-1998 (TREMBLREL. 07, LAST ANNOTATION UPDATE)
01-AUG-1998 (TREMBLREL. 07, LAST ANNOTATION UPDATE)
CHEMOKINE RECEPTOR CCR5.
CERCOCEBUS TORQUATUS ATYS (RED-CROWNED MANGABEY) (SOOTY MANGABEY).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
 CHEMOKINE RECEPTOR CCR5.
CERCOCEBUS TORQUATUS ATYS (RED-CROWNED MANGABEY)
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPO
 SEQUENCE FROM N.A. CHEN Z., GETTIE A., HO D.C CHEN Z., GETTIE A., HO D.C VIROLOGY 0:0-0(1998). EMBL; AF051903; G3135298;
 062744
 SEQUENCE
 EUTHERIA; PRIMATES.
 EUTHERIA;
 320
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 IAKRFCKCCSIFQQEASERASSVYTRSTGEQEISV 350
 KIVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLL
 ARTVTFGVITSIVTWGLAVLAALPEFIFYETE-ELFEETLCSALYPEDTVYS-WRHFHTL
 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH
 ARTVTFGLVTSVITWVVAVFASLPGIIFTRSQREGLHYT-CSPHFPYSQ-YQFWKNFQTL 196
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALK 138
 LSSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH
 RMTIFCLVLPLLVMAICYTGIIKTLLRCPS-KKKYKAIRLIFVIMAVFFIFWTPYNVAIL
 LVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALR 143
 184;
 h 53.8%;
Similarity 54.9%;
184; Conservative
 PRIMATES
 352 AA;
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llarity 54.9%;
Conservative
 PRELIMINARY;
 PRELIMINARY;
 35298; -.
40503 MW;
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 Score 1486; DB 6;
Pred. No. 2.12e-205;
84; Mismatches 58;
 Score 1490; DB 6; I
Pred. No. 4.92e-206;
85; Mismatches 57;
 MARX
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 C922372D CRC32;
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 TETRAPODA; MAMMALIA;
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 Query Match 53.8%;
Best Local Similarity 53.0%;
Matches 187; Conservative
 O55193 PRELIMINARY; P)
O55193;
O1-JUN-1998 (TREMBLREL. 06, CRE.
O1-JUN-1998 (TREMBLREL. 06, LAS:
O1-JUN-1998 (TREMBLREL. 06, LAS:
CHEMOKINE RECEPTOR CCR2.
RATTUS NORVEGICUS (RAT).
RETERRATORA; CHORDATA; VI
 STRAIN-SPRAGUE DAWLEY;
JIANG Y., SALAFRANCA M.N., ADHI
DEFIEBRE C.M., PENNELL N.A., ST
J. NEURCIAMUNOL. 0:0-0(1998).
EMBL; U77349; G2896818; -.
SEQUENCE 373 AA; 42763 MW;
O15538;
O15538;
O1-JAN-1998
 SEQUENCE FROM N.A.
 EUTHERIA; RODENTIA.
 302
 319
 242
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 AFVGEKFRRYLSIFFRKHIAKNLCKQCPVFYRETADRVSSTFTPSTGEQEVSV
 FAIMIVYFLFWTPYNIVLFLTTFQEFLGMSNCVVDMHLDQAMQVTETLGMTHCCVNPIIY
 FIILLTIDRYLAIVHAVFALKARTVTFGVITSVVTWVVAVFASLPGIIFTKSEQEDDQHT 202
 SIQELDEGATTPYDYDD-GEPCHKTSVKQIGAWILPPLYSLVFIFGFVGNMLVIIILISC
 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 IAKRECKCCSIFQQEASERASSVYTRSTGEQEISV 350 : ::: : | ||:||| : ||:| |:|:
 LSSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH
 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH
 AFVGERFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI
 SLDTVETFGTTSY-YDDVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKY
 PRELIMINARY;
 42763 MW;
 .N., ADHIKARI S., XIA Y., FE
N.A., STREIT W.J., HARRISON
 CREATED)
LAST SEQUENCE UPDATE)
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 Score 1486; DB 11; Pred. No. 2.12e-205;
 90; Mismatches
 VERTEBRATA;
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 TETRAPODA;
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 Length 373;
 MAMMALIA;
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 RESULT
 Query Match 53.6%;
Best Local Similarity 53.9%;
Matches 180; Conservative
 Query
 O18771 PRELIMINARY;
O18771;
O1-7AN-1998 (TREMBLREL. 05, CI
O1-JAN-1998 (TREMBLREL. 05, LL
O1-UN-1998 (TREMBLREL. 06, LL
CCR5 RECEPTOR (FRAGMENT).
 AIDS RES. HUM. RETROVIRUSES 0: EMBL; AF011536; G2305190; -. EMBL; AF011516; G2305150; -. EMBL; AF011534; G2305186; -. PFAM; PF00001; 7tm_1. NON_TER 352 352
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 HO D.D.;
AIDS RES. HUM. RETROVIRUSES
EMBL; AF011539; G2305196; -.
PFAM; PF00001; 7tm_1;
 STRAIN=CHCCR5-141A;
 PAN TROGLODYTES (CHIMPANZEE).
EUKARYOTA; METAZOA; CHORDATA;
EUTHERIA; PRIMATES.
 HO D.D.
 EUTHERIA; PRIMATES.
 HOMO SAPIENS (HUMAN).
EUKARYOTA; METAZOA; CHORDATA;
 01-JAN-1998 (TREMBLREL.
01-JUN-1998 (TREMBLREL.
CCR5 RECEPTOR (FRAGMENT)
CCR5.
 SEQUENCE
 ZHANG L.,
 SEQUENCE FROM N.A.
 ZHANG L., CARRUTHERS C.D.,
 320
 316
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 Local
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 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAVVHAVFALK 138
 LSSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH
 RMTIFCLVLPLLVMAICYTGIIKTLLRCPS-KKKYKAIRLIFVIMAVFFIFWTPYNVAIL
 KIVILGIVLPLIVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLL 256
 LVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALR 143
 IAKRFCKCCSIFQQEAPERVSSVYTRSTGEQEISV 350
 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH 315
 .ch 53.7%;
il Similarity 54.3%;
182; Conservative
 FROM N.A.
 CARRUTHERS C.D.,
 352 AA;
 352 AA; 40552 MW;
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 40466 MW;
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 Score 1480; DB 6;
Pred. No. 1.89e-204;
86; Mismatches 61;
 Score 1482; DB 4; I
Pred. No. 9.10e-205;
86; Mismatches 58;
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PFAM; PF00001; 7tm_1.
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01-JAN-1998
01-JAN-1998
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 CCR5.
 SEQUENCE FROM N.A.
STRAIN=CHCCR5-142A;
ZHANG L., CARRUTHERS C.D.,
 PAN TROGLODYTES (CHIMPANZEE).
EUKARYOTA; METAZOA; CHORDATA;
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 AIDS RES. HUM. RETROVIRUSES 0:0-0(1997).
 EUTHERIA; PRIMATES.
 CCR5 RECEPTOR (FRAGMENT).
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LSSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH
 KIVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYDIVLL
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLFIDRYLAIVHAVFALK 138
 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV
 ARTVTFGVVTSVITWVVAVFASLPGIIFTRSQKEGLHYT·CSSHFPYSQ-YQFWKNFQTL
 NTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKHI
 ARTVTFGVVTSVITWVVAVFASLPGIIFTRSQKGGLHYTCSSHFPYSQ-YQFWKNFQTLK
 CQKINVKQIAARLLPPLYSLVFIFGFVGNMLVILILINCKRLKSMTDIYLLNLAISNLFF
 ARTVTFGVITSIVTWGLAVLAALPEFIFYETE-ELFEETLCSALYPEDTVYS-WRHFHTL
 LVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALR 143
 AKRECKCCSIFQQEAPERASSVYTRSTGEQEISV 350
 ARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEETLCSALYPEDTVYS-WRHFHTLR
 RMTIFCLVLPLLVMAICYTGIIKTLLRCPS-KKKYKAIRLIFVIMAVFFIFWTPYNVAIL
 SSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRHL
 181;
 Similarity
 (TREMBLREL. 05,
(TREMBLREL. 05,
 53.5%;
llarity 54.0%;
Conservative
 PRELIMINARY;
 G2305200;
 40598 MW;
 HE T.,
 Score 1477; DB 6;
Pred. No. 5.63e-204;
87; Mismatches 58;
 LAST SEQUENCE UPDATE)
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 VERTEBRATA; TETRAPODA; MAMMALIA;
 A9BF8EDF CRC32;
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SEQUENCE FROM N.A.
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CHEN Z., GETTIE A., HO D.D., MARY
VIROLOGY 0:0-0(1998).
VIROLOGY 0:0-0(1998).
EMBL: AF051902; G3135296; -.
352 AA: 40407 MW; 1
 089609;
01-NOV-1996 (TREMBLREL. 01, CREATED)
01-NOV-1996 (TREMBLREL. 01, LAST SEQU
01-JUN-1998 (TREMBLREL. 06, LAST ANNO
01-JUN-1998 (TREMBLREL. 06, LAST ANNO
07-JUN-1998 (TREMBLREL. 06, LAST ANNO
07-JUN-1998 (TREMBLREL. 07-JUN-1998)
07-JUN-1998 (TREMBLREL. 07-JUN-1998)
07-JUN-1998 (TREMBLREL. 01, LAST ANNO
07-JUN-1998 (TREMBLREL. 06, LAST ANNO
07-JUN-1998 (TREMBLREL. 01, 01-AUG-1998 (TREMBLREL. 07, CREATED)
01-AUG-1998 (TREMBLREL. 07, LAST SEQUENCE UPDATE)
01-AUG-1998 (TREMBLREL. 07, LAST ANNOTATION UPDATE)
CHEMOKINE RECEPTOR CCR5.
CERCOCEBUS TORQUATUS ATYS (RED-CROWNED MANGABEY) (SOOTY MANGABEY).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
EUTHERIA; PRIMATES.
 062743
062743;
 Q89609
 EMBL;
EMBL;
PFAM;
 MEDLINE; 95302501.
TELFORD E.A., WATS
J. MOL. BIOL. 249:
 TELFORD E.A.R.;
SUBMITTED (FEB-1995) TO
 SEQUENCE FROM N.A. STRAIN-86/67;
 STRAIN-86/67
 SEQUENCE FROM N.A.
 320
 320
 316
 261
 202
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 139
 Match 53.38;
Local Similarity 54.68;
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 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH
|:::| : | | |:| |::| | | || || ::|
LSSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPYIYAFVGERFRKYLRHFFHRH
 ARTVTFGVITSIVTWGLAVLAALPEFIFYETE-ELFEETLCSALYPEDTVYS-WRHFHTL
 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 IAKRFCKCCSIFQQEASERASSVYIRSTGEQEISV 350
 ARTVTFGVVTSVITWVVAVFASLPGIIFTRSQREGLHYT-CSPHFPYSQ-YQFWKNFQTL 196
 CEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLF
U20824; G695251; -. U20824; G695173; -. PF00001; 7tm_1.
 183;
 PRELIMINARY;
 PRELIMINARY;
 Conservative
 WATSON M.S., AIRD 249:520-528(1995).
 01, CREATED)
01, LAST SEQUENCE UI
06, LAST ANNOTATION
 EMBL/GENBANK/DDBJ
 Score 1471; DB 6;
Pred. No. 5.02e-203;
84; Mismatches 59;
 MARX
 PRT;
 PRT;
 1716CC5C CRC32;
 H.C.,
 P.A.;
 HERPESVIRIDAE; ALPHAHERPESVIRINAE
 383
 352
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01-JUN-1998 (TREMBLREL C
 HAUER D.A., MARGULIES B.J., CLEMENTS J.E.;
SUBMITTED (JUL-1997) TO EMBL/GENBANK/DDBJ
EMBL; AF013958; G2317748; -.
PFAM; PF00001; 7tm_1.
SEQUENCE 360 AA; 41111 MW; 13A47F2E CR
 SEQUENCE
 EUKARYOTA; METAZOA
EUTHERIA; PRIMATES
 MACACA MULATTA (RHESUS MACAQUE)
EUKARYOTA; METAZOA; CHORDATA; V
 CHEMOKINE RECEPTOR.
 SEQUENCE FROM N.A.
 252
 256
 193
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 133
 140
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 235
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 77
 17
 56 YEESAP-CYKSDTTRLAAQVVPALYLLVFLFGLLGNILVVIIVIRYMKIKNLTNMLLLNL 114
 73
 81
 14
 Local Similarity
les 183; Conser
 21
 TTFFDYDYGAPCHKFDVKQIGAQLLPPLYSLVFIFGFVGNMLVVLILINCKKLKSLTDIY
 FHTYVAIYLCKYIPFLSGD 373
 NIVLLLSTFHATLLNLQCALSSNLDMALLITKTVAYTHCCINPVIYAFVGEKFRRHLYHF 354
 VYAVTALRERTVTCGIVTCVCTWFLAGLLSLPEFFFHGHQDDNGRVQCDPYYPEMSTNVW 234
 WTPYNVAILLSSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRK
 LLNLAISDLLFLITLPLWAHSA-ANEWVFGNAMCKLFTGLYHIGYLGGIFFIILLTIDRY 139
 NVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHF
 RRAHVAKVIMLSLILPLLIMAVCYYVIIRRLLRRPSKKKYKAIRLIFVIMVAYFVFWTPY
 VHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEETLCSALYPEDTVYSW 195
 YDDVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKYRRLRIMTNIYLLNL 76
 LAIVHAVFALKARTVTFGVVTSVITWLVAVFASVPGIIFTKCQEEDSVYICGPYFP--R- 196
 LLNLAISDLLFLVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRY
 TSYYD-DVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKYRRLRIMTNIY
 RHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRLIFVIMAVFFIFWTPY
 WTPYNIVILLNTFQEF-FGLSNCESTRQLDQATQVTETLGMTHCCINPIIYAFVGEKFRR
 l Similarity
173; Conser
 383 AA;
 PRELIMINARY;
 Conservative
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 51.6%;
53.4%;
 52.2%;
 43667 MW;
 96,0
 Score 1440; DB 14;
Pred. No. 4.04e-198;
69; Mismatches 75;
 Score 1425; DB 6;
Pred. No. 9.52e-196;
86; Mismatches 64;
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LAST SEQUENCE UPDATE;
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 13A47F2E CRC32;
 60F5BFD4 CRC32;
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01-JUN-1998
CCR5 RECEPTO
SEQUENCE FROM N.A.

MCCOMBIE W.R., WILSON R., CHEN E., GIBBS R., ZUO L., JOHNSON D., MCCOMBIE W.R., WILSON R., CHEN E., GIBBS R., ZUO L., JOHNSON D., NHAN M., PARNELL L., DEDHIA N., ANSARI A., MARDIS E., SCHUTZ K., SHAN J., MUZNY GNOJ L., LA BASTIDE M., KAPLAN N., GRECO T., TOUCHMAN J., MUZNY CHEN C.N., EVANS C., FITZGERALD M., SEE L.H., TANG M., PORCEL B.
 CCR6
 CCR6 OR CKRX.
HOMO SAPIENS (HUMAN).
 AIDS RES. HUM. RETROVIRUSES 0:0-0(1997).

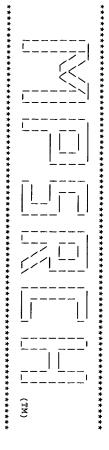
BMBL; AF011504; G2305126; -

PFAM; PF00001; 7tm_1.

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 CCR5
 EUKARYOTA; METAZOA;
EUTHERIA; PRIMATES.
 HO D.D.
 HOMO SAPIENS (HUMAN).
EUKARYOTA; METAZOA; CHORDATA;
EUTHERIA; PRIMATES.
 ZHANG L.,
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 SEQUENCE FROM N.A.
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Local Similarity 54.2%;
s 175; Conservati
 PSEKLERTSSV-SPSTAEPELSI 353
 VTWGLAVLAALPEFIFYETE-ELFEETLCSALYPEDTVYS-WRHFHTLRWTIFCLVLPLL
 GHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALRARTVTFGVITSI
 YLSMFFRKYITKRFCKQCPVFYRETVDGVTSTNTPSTAEQEVS
 QQEAPERASSVYTRSTGEQEISV 331
 DCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRHLLMHLGRYIPFL
 ITWVVAVFASLPGIIFTRSQKEGLHYT-CSSHFPYSQ-YQFWKNFQTLKIVILGLVLPLL
 AQ-WDEGNIMCQLLIGLYFIGFESGIFFIILLTIDRYLAVVHAVFALKARTVTFGVVTSV 131
 RECEPTOR
 YLRHFFHRHLLMHLGRYIPFLPSEKLE-RTSSVSPSTAEPELS
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7 (TREMBLREL.
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(TREMBLREL. 06, LAST ANN
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 CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
 38174 MW;
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06, LAST ANNOTATION UPDATE)
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 Score 1380; DB 4; Pred. No. 1.23e-188;
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FAN P., KYAW H., SU K., ZENG Z.
BIOCHEM. BIOPHYS. RES. COMMUN.
EMBL; U95626, G2104521; -.
EMBL; AF014958; G2305264; -.
 DRAGAN Y., GIACALONE J.,
DIAZ-PEREZ S., ZHOU X., Y
SAGRIPANTI J.L.;
SUBMITTED (MAY-1997) TO E
 SEQUENCE
 SEQUENCE FROM N.A. LIU ANSARI-LARI M.A., LIU SUBMITTED (AUG-1997) I
 198
 142
 258 AILLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFH
 141 AR-RRVPCGIITSVLAWVTAILATLPEYVVYKPQMEDQKYKCAFSRTPFLPADETF-WKH 198
 completed: Tue
 FHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRLIFVIMAVFFIFWTPYNV
 LRARTVTFGVITSIVTWGLAVLAALPEFIFY--ETEEL-FEETLCSALY-PEDTVYSWRH
 AFFLSTFKEHFSLSDCKSSYNLDKSVHITKLIATTHCCINPLLYAFLDGTFSKYLCRCFH
 FLTLKMNISVLVLPLFIFTFLYVQMRKTL-RFREQR-YSLFKLVFAIMVVFLLMWAPYNI
 U97123; G2897071; -.
U97123; G2897071; -.
PF00001; 7tm_1.
NCE 344 AA; 39529 MW;
 Similarity
 Conservative
 Dec
 34.0%;
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 ZENG Z., AUGUSTUS M., CARTER COMMUN. 243:264-268(1998).
 .-M., GORRELL J.H., GIBBS R.A.; EMBL/GENBANK/DDBJ DATA BANKS.
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 13:17:52 1998
 EMBL/GENBANK/DDBJ DATA BANKS
 PAE A., POWELL E., YU Y., WATANABE M.,
 Score 938; DB 4; I
Pred. No. 2.57e-119;
 C87A6CB5 CRC32;
 Mismatches
 SOLINSKY K.A.,
DOGGETT N., GA
 Length 344;
 Indels
 K.C.,
 GARCIA
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 Gaps
 256
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Search Job tim time secs



Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

ch\_pp protein - protein database search, using Smith-Waterman algorithm Run on:

Tue Dec 8 13:15:36 1998; MasPar time 11.15 Seconds 854.574 Million cell updates/sec

Tabular output not generated.

Title: >US-08-963-656-4

Description: (1-355) from US08963656.pep

Perfect Score: 2760

Sequence: 1 MTTSLDTVETFGTTSYYDDV.....LERTSSVSPSTAEPELSIVF 355

Scoring table: PAM 150

Gap 11

Post-processing: Minimum Match 0% Listing first 45 summaries

74019 seqs, 26840295 residues

Searched:

Database: swiss-prot35 1:swissprot

Statistics: Mean 50.467; Variance 121.099; scale 0.417

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

| Result | Score | %<br>Query<br>Match | Length | BB           | ID         |                        | Pred. No. |
|--------|-------|---------------------|--------|--------------|------------|------------------------|-----------|
| 1      | 2760  | 100.0               | 355    | ب ا          | CKR3_HUMAN | C-C CHEMOKINE RECEPTOR | 0.00e+00  |
| 2      | 2551  | 2                   | 355    | μ            |            | -C CHEMOKINE           |           |
| ω      | 2533  | ۲                   | 355    | 1            | CKR3_MACMU |                        | 0.00e+00  |
| 4      | 1960  | 71.0                | 359    | ۳            | CKR3_MOUSE | ROBABLE C-C C          |           |
| u      | 1834  | 5                   | 355    | Н            | CKR1_HUMAN | CHEMOKINE RECEPTO      | .89e-2    |
| σ      | 1723  | 62.4                | 355    | ш            | CKR1_MACMU | CHEMOKINE              | o         |
| 7      | 1718  | .2                  | 355    | ш            | CKR1_MOUSE | -C CHEMOKINE           | 5.05e-268 |
| - σο   | 1507  |                     | 352    | <u>س</u> ـــ | CKR5_MACMU |                        | o         |
| ص      | 1499  | ٠,                  | 352    | ᆫ            | CKR5_CERAE | C-C CHEMOKINE RECEPTOR | ٠,        |
| 10     | 1498  | 54.3                | 352    | _            | CKR5_PAPHA | -C CHEMOKINE           |           |
| 11     | 1492  |                     | 354    | _            | CKR5_RAT   | -C CHEMOKINE           | 2.41e-228 |
| 12     | 1489  | ω                   | 352    | _            | CKR5_GORGO | -C CHEMOKINE           | 8.08e-228 |
| 13     | 1488  | ·                   | 354    | _            | CKR5_MOUSE | C-C CHEMOKINE RECEPTOR | 1.21e-227 |
| 14     | 1486  | ω.                  | 352    | 1            | CKR5_PANTR | -C CHEMOKINE           | 2.71e-227 |
| 15     | 1484  | ω.                  | 352    | $\vdash$     | CKR5_HUMAN | -C CHEMOKINE           | 6.07e-227 |
| 16     | 1459  |                     | 373    | щ            | CKR2_MOUSE | -C CHEMOKINE           | .45e-     |
| 17     | 1439  | 52.1                | 356    | مبو          | CKRV_MOUSE |                        | 10        |
| 18     | 1335  | ω.                  | 374    | سا           | CKR2_HUMAN | -C CHEMOKINE           | .78e-     |
| 19     | 1243  | .5                  | 360    | بــر         | CKR4_HUMAN | C-C CHEMOKINE RECEPTOR | 7.28e-185 |
| 20     | 1199  | w                   | 360    | ب            | CKR4_MOUSE | -C CHEMOKINE           | . 26e-    |
| 21     | 1067  | 8                   | 355    | ш            | CKR8_HUMAN | -C CHEMOKINE           | .46e-     |
| 22     | 1059  | 38.4                | 354    | <b>ب</b>     | GPRD_RAT   | ROBABLE G PRO          | 4e-       |
| 23     | 1016  | 36.8                | 353    | ب            | CKR8_MOUSE | C-C CHEMOKINE RECEPTOR | .57e-     |
|        |       |                     |        |              |            |                        |           |

| 45                     | 44                     | 43                     | 42                     | 41                     | 40                     | 39                     | 38                     | 37                     | 36                     | 35                     | 34         | 33                     | 32                     | 31                     | 30                     | 29                     | 28                     | 27          | 26                     | 25                     | 24                     |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------|------------------------|------------------------|------------------------|
| 716                    | 716                    | 717                    | 719                    | 722                    | 725                    | 725                    | 729                    | 729                    | 732                    | 734                    | 735        | 734                    | 739                    | 739                    | 776                    | 781                    | 782                    | 805         | 825                    | 850                    | 1011                   |
| 25.9                   | 25.9                   | 26.0                   | 26.1                   | 26.2                   | 26.3                   | 26.3                   | 26.4                   | 26.4                   | 26.5                   | 26.6                   | 26.6       | ٠                      |                        |                        |                        | •                      |                        | •           | 9                      | 0                      | 36.6                   |
| 355                    | 342                    | 352                    | 352                    | 342                    | 353                    | 350                    | 350                    | 349                    | 360                    | 353                    | 353        | 350                    | 368                    | 360                    | 378                    | 381                    | 333                    | 357         | 378                    | 374                    | 355                    |
| _                      | <b>,</b>               | سا                     | _                      | ۳                      | ۳                      | <u>ш</u>               | μ                      | مسو                    | μ                      | <b>ب</b>               | _          | μ                      | بر                     | ш                      | ب                      | μ                      | Ь                      | Н           | Н                      | ш                      | _                      |
| IL8A_RABIT             | BONZ_CERAE             | CCR4_PAPAN             | CCR4_HUMAN             | BONZ_HUMAN             | IL8B_GORGO             | IL8A_HUMAN             | IL8A_PANTR             | IL8A_RAT               | IL8B_BOVIN             | IL8B_MACMU             | IL8B_PANTR | IL8A_GORGO             | CCR3_HUMAN             | IL8B_HUMAN             | CKR7_MOUSE             | VQ3L_CAPVK             | GPR5_HUMAN             | GC96_HUMAN  | CKR7_HUMAN             | CKR6_HUMAN             | GPRD_HUMAN             |
| HIGH AFFINITY INTERLEU | G PROTEIN-COUPLED RECE | C-X-C CHEMOKINE RECEPT | C-X-C CHEMOKINE RECEPT | G PROTEIN-COUPLED RECE | HIGH AFFINITY INTERLEU |            | HIGH AFFINITY INTERLEU | C-X-C CHEMOKINE RECEPT | HIGH AFFINITY INTERLEU | C-C CHEMOKINE RECEPTOR | G-PROTEIN COUPLED RECE | PROBABLE G PROTEIN-COU | BABLE G PRO | C-C CHEMOKINE RECEPTOR | C-C CHEMOKINE RECEPTOR | PROBABLE G PROTEIN-COU |
|                        |                        |                        | :.                     | 2.78e-95               | 8.65e-96               | .65e-9                 | .82e-9                 |                        |                        | 2.60e-97               |            | 2.60e-97 ·             | 3.71e-98               |                        | ٠                      | . 80e-                 |                        |             | 9.09e-113              | •                      | 1.14e-144              |

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GCRDB; GCR_2529; -.
MIM; 601268; -.
PROSITE; PS00237; G_PROTEIN_RE
 DOMAIN
DISULFID
 CKR3_CERAE STANDARD; PRT; 355 AA.
p56492;
15-JUL-1998 (REL. 36, CREATED)
15-JUL-1998 (REL. 36, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
15-JUL-1998 (REL. 36, CAST ANNOTATION UPDATE)
16-C CHEMOKINE RECEPTOR TYPE 3 (C-C CKR-3) (CC-CKR-3)
 DOMAIN
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 CERCOPITHECUS AETHIOPS EUKARYOTA; METAZOA; CH
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 IFVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMNPVI 300
 TLCSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRL
 IFFIILLTIDRYLAIVHAVFALRARTVIFGVITSIVTWGLAVLAALPEFIFYETEELFEE
 KYRRLRIMTNIYLLNLAISDLLFLVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSE
 KYRRLRIMTNIYLLNLAISDLLFLVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSE
 TLCSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRL
 IFFIILTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEE
 IFVIMAVFF IFWTPYNVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMNPVI
 cn 100.0%;
l Similarity 100.0%;
355; Conservative
 TREBOUTE C.,
ED (JUL-1997)
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RECEPTOR FOR A
 AA;
 G_PROTEIN_RECEPTOR;
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 41043
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 EMBL,
 E., FERCHAL F., ALIZ
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 TRANSMEMBRANE
 Score
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7 (POTENTIAL)
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 CYTOPLASMIC
6 (POTENTIA:
 EXTRACELLULAR (POTENTIAL)
5 (POTENTIAL)
 2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
 CYTOPLASMIC
 EXTRACELLULAR (POTENTIAL)
 MONKEY) (GRIVET).
VERTEBRATA; TETRAPODA;
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 -> T (IN REF. 4).
EB145247 CRC32;
 (POTENTIAL)
 (POTENTIAL)
 e 2760; Ub .,
1. No. 0.00e+00;
 No. 0.00e+
TYPE CHEMOKINE. BINDS TO EOTAXIN,
 (POTENTIAL).
 (POTENTIAL).
 (POTENTIAL)
 (POTENTIAL).
 ALIZON
 BANKS
 ×.
 Indels
 (CCR-3).
 MAMMALIA
 0;
 Gaps
 180
 180
 120
 120
 60
 60
 300
 240
 0;
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RESULT
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 B
 SOUTH THE PROPERTY OF THE PROPERTY WAS A SECOND OF THE PROPERTY OF THE PROPERT
 Query Match
Best Local S
Matches 32
 CKR3_MACMU STAI
P56483;
15-JUL-1998 (REL.
15-JUL-1998 (REL.
15-JUL-1998 (REL.
 DOMAIN
DISULFID
SEQUENCE
 DOMAIN
TRANSMEM
 DOMAIN
TRANSMEM
 SEQUENCE FROM N.A.
HAUER D.A., MARGULIES
SUBMITTED (AUG-1997)
 MACACA MULATTA (RHESUS MACAQUE).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA;
 CMKBR3
 C-C CHEMOKINE
 G-PROTEIN
SEQUENCE FROM N.A. SOL N., TREBOUTE C
 EUTHERIA; PRIMATES
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 PROSITE;
 GCRDB; GCR_2422;
 301
 301
 241
 181
 181
 121
 121
 61
 61
 ш
 MCP-3, MCP-4 AND RANTES AND SUBSEQUENTLY TRANSDUCES INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL. SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN. SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLET, Y13775; E1191907; -.
 MTTSLYTVETFGPTSYDDDMGLLCEKADVGALIAQFVPPLYSLVFTVGLLGNVVVVMILI
 YAFYGERERKYLRHEFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF
 YAFVGERFRKYLRHFFHRHVLMHLGRYIPFLPSEKLERTSSVSPSTAEPELCIVF 355
 IFVIMAVEFIFWTPYNVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAVSHCCMNPVI
 IFVIMAVEFIFWIPYNVAILISTYQSILEGLDCERSKHVDLVVLVTEVIAYSHCCVNPVI
 TLCSAIYPQDTVYSWRHFHTLKMTILCLALPLLVMAICYTGIIKTLLKCPSKKKYKAIRL
 | IFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLVALPEFIFYGTEELFPE
 KYRRLRIMTNIYLLNLAISDLLFLVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSE
 KYRRLRIMTNIYLLNLAISDLLELETLPEWIHYVREHNWVFSHGMCKVLSGEYHTGLYSE
 MTTSLDTVETFGTTSYYDDVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILI
 TLCSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRL
 IFFILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEE
 l Similarity
327; Conser
 TREBOUTE C.,
 COUPLED
 106
355
 Conservative
 RECEPTOR TYPE
 AA;
 STANDARD;
 36,
 92.4%;
92.1%;
 40830
 _PROTEIN_RECEPTOR;
 GOMAS
 TO B
 CREATED)
LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
 .J., CLEMENTS J.E. EMBL/GENBANK/DDBJ
 ₩;
 円
.
 5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
6 (POTENTIAL).
EXTRACELLULAR (POTENTIAL).
7 (POTENTIAL).
 3 (C-C
 Score 2551; DB 1;
Pred. No. 0.00e+00;
15; Mismatches 13
 EXTRACELLULAR (
3 (POTENTIAL)
CYTOPLASMIC (POTENTIAL)
4 (POTENTIAL)
 7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
BY SIMILARITY.
 TRANSMEMBRANE
 1 (POTENTIAL)
CYTOPLASMIC (
 EXTRACELLULAR
 EXTRACELLULAR
 PRT;
 FERCHAL F.,
 AED65DF8 CRC32;
 (POTENTIAL
 CKR-3) (CC-CKR-3) (CCR-3)
 3
5
5
 B
 (POTENTIAL)
 (POTENTIAL).
 (POTENTIAL).
 DATA
 TETRAPODA; MAMMALIA
 ALIZON
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 13;
 BANKS
 Length 355;
 COUPLED
 Indels
 A
 SIGNAL
 0;
 Gaps
 ВУ
 240
 180
 180
 120
 60
 60
 300
 0;
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OCCUPATION
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 8222222222
 FFFF BRRRR CCCCC
 Query Match
Best Local S
Matches 32
 P51678;
01-OCT-1996
 01-OCT-1996 (REL. 34, CREATED)
01-OCT-1996 (REL. 34, LAST SEQUENCE UPDATE)
01-NOV-1997 (REL. 35, LAST ANNOTATION UPDATE)
PROBABLE C-C CHEMOKINE RECEPTOR TYPE 3 (C-C CKR-3) (CC-CKR-3) (CCR-3)
(MACROPHAGE INFLAMMATORY PROTEIN-1 ALPHA RECEPTOR-LIKE 2) (MIP-1 ALPH
 SUBMITTED (JUL-1997) TO -!- FUNCTION: RECEPTOR F
 EUKARYOTA;
 CMKBR3 OR CMKBR1L2.
MUS MUSCULUS (MOUSE).
 CKR3_MOUSE
 SEQUENCE
 CONFLICT
 CONFLICT
 DISULFID
 DOMAIN
 TRANSMEM
 TRANSMEM
 DOMAIN
 TRANSMEM
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 G-PROTEIN
 PROSITE;
 -!- SUBCELLULAR
 DOMAIN
 301
 301
 181
 181
 121
 121
 61
 61
 FUNCTION: RECEPTOR MCP-3, MCP-4 AND RA
 FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE, BINDS T MCP-3, MCP-4 AND RANTES AND SUBSEQUENTLY TRANSDUCES INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL. SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
 MITSLDIVETFGFISYDDDMGLLCEKADVGALIAQFVPPLYSLVFMVGLLGNVVVVMILI 60
 YAFVGERFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF
 YAFVGERFRKYLRHFFHRHVLMHLGKYIPFLPSEKLERTSSVSPSTAEPELSIVF
 IFVIMAVFFIFWTPYNVAILISTYQSVLFGLDCERSKHLDLFVLATEVIAYSHCCVNPVI
 TLCSALYPEDTVYSWRHEHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRL
 TLCSAIYPQDTVYSWRHEHTLKMTILCLALPLLVMAICYTGIIKTLLRCPSKKKYKAIRL
 IFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEE
 IFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYGTEKLFPK 18C
 IFVIMAVEF IFWTPYNVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMNPVI
 AF017283;
 | Similarity
| 324; Conser
 COUPLED
 METAZOA;
 202
355
 35
63
73
108
130
147
172
 Conservative
 E1192545;
 STANDARD;
 G2407219; -.
 BELONGS TO
 G_PROTEIN_RECEPTOR; 1.
RECEPTOR; TRANSMEMBRANE.
 203
223
223
264
264
305
355
183
 34
62
72
93
107
129
146
 CHORDATA; VERTEBRATA;
 91.8%;
91.3%;
 40805
 EMBL/GENBANK/DDBJ DATA BANKS.
OR A C-C TYPE CHEMOKINE. BINDS
 WW;
 FAMILY 1
 CYTOPLASMIC (F
BY SIMILARITY:
K -> E (IN REF
K -> R (IN REF
 16;
 Score 2533; DB 1;
Pred. No. 0.00e+00
 EXTRACELLULAR (POTENTIAL)
7 (POTENTTAT)
 4 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
 CYTOPLASMIC
 CYTOPLASMIC
 2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
 CYTOPLASMIC
 EXTRACELLULAR (POTENTIAL).
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 A839CACE
 (POTENTIAL)
 Mismatches
 OF G-PROTEIN COUPLED RECEPTORS
 359
 W REF. 2).
W REF. 2).
E CRC32;
 ₽
 (POTENTIAL).
 (POTENTIAL).
 (POTENTIAL).
 (POTENTIAL).
TETRAPODA; MAMMALIA,
 15;
 Length 355;
 Indels
 TO
A
 EOTAXIN, SIGNAL BY
 0
 355
 Gaps
 240
 240
 180
 0
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 Query Match
Best Local S
Matches 24
 DISULFID CONFLICT
 DOMAIN
 GCRDB; GCR_1673; -.
GCRDB; GCR_1695; -.
GCRD; MGI:104616; CMKBR1L2.
PROSITE; PS00237; G_PROTEI
 -!- SIMILARITY: BELONGS TO FAMILY 1 EMBL; U29677; G1109784; -. EMBL; U28406; G1203801; -.
 GAO J.-L., MURPHY P.M.;
J. BIOL. CHEM. 270:17494-17501(1995).
J. BIOL. CHEM. 270:17494-17501(1995).
J. FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO THE TOWN TOWN THE THE THE AND SUBSEQUENTLY TRANSDUCES INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL.
J. SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROFEIN.
J. TISSUE SPECIFICITY: DETECTED IN SKELETAL MUSCLE AND
 MEDLINE; 96072806.
POST T.W., BOZIC C.R.,
GERARD C.;
 SEQUENCE FROM N.A. STRAIN=129/SVJ;
 SEQUENCE
 TRANSMEM
 TRANSMEM
 G-PROTEIN
 MEDLINE; 95340546.
 STRAIN-129
 SEQUENCE FROM N.A.
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 DOMAIN
 EUTHERIA; RODENTIA
 311
 187
 191
 127
 247
 251
 131
 67
 71
 12 VESFETTPYEYEWAPP-CEKVRIKELGSWLLPPLYSLVFIIGLLGNMMVVLILIKYRKLQ
 œ
 IMMUNOL. 155:5299-5305(1995).
 AMOUNTS IN LEUKOCYTES.
 RFRKHLRLFFHRNVAVYLGKYIPFLPGEKMERTSSVSPSTGEQEISVVF
 VFFIFWTPYNLVLLFSAFHRTFLETSCEQSKHLDLAMQVTEVIAYTHCCVNPVIYAFVGE
 LTIDRYLAIVHAVFALRARTVTFATITSIITWGLAGLAALPEFIFHESQDSFGEFSCSPR
 VETEGTTSY-YDDVGLLCEKADTRALMAQEVPPLYSLVETVGLLGNVVVVMILIKYRRLR
 VFFIFWTPYNVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGE
 Similarity
 PS00237; G_PROTEIN COUPLED RECEPTOR;
 270
359
 /SV;
 39
65
69
112
1134
1151
176
 Conservative
 À
 71.0%;
 41825
 ROTHENBERG
 ₩.
 Score 1960; DB 1;
Pred. No. 0.00e+00;
51; Mismatches 50
 RECEPTOR;
 BY SIMILARITY
R -> S (IN RE)
 EXTRACELLULAR (POTENTIAL)
3 (POTENTIAL)
 7 (POTENTIAL)
CYTOPLASMIC (
 EXTRACELLULAR (POTENTIAL).
7 (POTENTIAL).
 CYTOPLASMIC
6 (POTENTIA)
 EXTRACELLULAR (POTENTIAL)
5 (POTENTIAL).
 3 (POTENTIAL)
CYTOPLASMIC (
 CYTOPLASMIC
2 (POTENTIA
 RANSMEMBRANE
 4 (POTENTIAL)
 EXTRACELLULAR (POTENTIAL)
 (POTENTIAL
 (POTENTIAL)
 (POTENTIAL)
 3D2A9F0D
 М.Е.,
 ဝှု
 (IN REF. 2).
 G-PROTEIN
 CRC32;
 LUSTER A.D.,
 (POTENTIAL)
 (POTENTIAL).
 (POTENTIAL).
 (POTENTIAL).
 Length 359;
 BINDS TO EOTAXIN,
NSDUCES A SIGNAL I
 COUPLED
 Indels
 GERARD
 IN TRACE
 2;
 z
 Gaps
 ВY
 190
 186
 66
 310
 246
 70
 306
 250
 2
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307

RFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF 355

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RESULT OF THE SULT Query Match
 P32246;
01-OCT-1993 (REL.
01-OCT-1993 (REL.
15-JUL-1998 (REL.
 15-UL-1993 (REL. 27, LAST SEQUENCE UPDATE)
15-UUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
C-C CHEMOKINE RECEPTOR TYPE 1 (C-C CKR-1) (CC-CKR-1) (CCR-1)
(MACROPHAGE INFLAMMATORY PROTEIN-1 ALPHA RECEPTOR) (MIP-1ALPHA-R)
(RANTES-R) (HM145) (LD78 RECEPTOR).
CMKRR1 OR CMKR1.
 DISULFID
 TRANSMEM
DOMAIN
 GCRDB;
 SEQUENCE
 DOMAIN
TRANSMEM
 DOMAIN
 G-PROTEIN
 PROSITE;
 GCRDB; GCR_0573; - MIM; 601159; -.
 EMBL; D10925; G219863; PIR; A45177; A45177.
 -!- SIMILARITY: BELONGS
EMBL; L09230; G179985; -
EMBL; L10918; G292417; -
 MEDLINE;
 MURPHY P.M.;
J. EXP. MED. 177:1421-1427(1993).
 MEDLINE; 9:
GAO J.-L.,
 SEQUENCE FROM N.A. MEDLINE; 93240122.
 SEQUENCE FROM N.A.
MEDLINE; 93161416.
NEOTE K., DIGREGORIO D
CELL 72:415-425(1993).
 EUKARYOTA; METAZOA; EUTHERIA; PRIMATES.
 JT 5
CKR1_HUMAN
 CARBOHYD
 DOMAIN
 DOMAIN
 DOMAIN
 TISSUE=MONOCYTES
 DOMAIN
 TRANSMEM
 TRANSMEM
 NOMURA H.,
 SEQUENCE FROM N.A.
 HOMO SAPIENS (HUMAN).
 DOMAIN
 RANSMEM
 RANSMEM
 RANSMEM
 . IMMUNOL. 5:1239-1249(1993).
FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS RANTES, MCP-3 AND, LESS EFFICIENTLY, TO MIP-1-BETA SUBSEQUENTLY TRANSDUCES A SIGNAL BY INCREASING THE CALCIUM IONS LEVEL. RESPONSIFLE FOR AFFECTING STEM
 TISSUE SPECIFICITY:
 SUBCELLULAR LOCATION: INTEGRAL MEMBRANE
 PROLIFERATION
 GCR_0498; -
 94092629
 COUPLED
 NIELSEN B.W.,
 KUHNS D.,
 198
224
240
 35
61
92
108
130
147
 AA;
 STANDARD;
 G_PROTEIN_
RECEPTOR;
 PROTEIN_RECEPTOR; 1
 CHORDATA; VERTEBRATA; TETRAPODA; MAMMALIA;
 41172
 D.,
 TIFFANY H.L.,
 .48;
 ТО
 WIDELY
 MATSUSHIMA K.;
 MAK
 ¥.
 FAMILY 1
 Score 1834;
 TRANSMEMBRANE;
 ΕY
 7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL)
 EXTRACELLULAR (POTENTIAL).
 J.Y.,
 5 (POTENTIAL)
CYTOPLASMIC (
 CYTOPLASMIC
 CYTOPLASMIC
 POTENTIAL.
 EXTRACELLULAR (POTENTIAL)
 EXTRACELLULAR (POTENTIAL)
 EXTRACELLULAR
 3Y SIMILARITY.
E -> D (IN REF. 3)
CDB9E09F CRC32;
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 EXPRESSED
 (FOTENTIAL)
 (POTENTIAL)
 MCDERMOTT D.,
 HORUK R.,
 မှု
 355
 G-PROTEIN COUPLED
 DΒ
 (POTENTIAL).
 (POTENTIAL).
 (POTENTIAL).
 H
 A
 GLYCOPROTEIN. (POTENTIAL).
 ۲,
 DIFFERENT HEMATOPOIETIC
 PROTEIN
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 SCHALL T.J.;
Length
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;
 S TO MIP-1-ALPHA,
A OR MCP-1 AND
E INTRACELLULAR
M CELL
 FRANCKE
 RECEPTORS
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 ULT 6
CKR1_MACMU STANDARD;
P56482;
P56482;
15-JUL-1998 (REL. 36, CREF
15-JUL-1998 (REL. 36, LAS)
15-JUL-1998 (REL. 36, LAS)
15-JUL-1998 (REL. 36, TAS)
 Best Local Similarity 63.0%;
Matches 225; Conservative
 CARBOHYD
DISULFID
 TRANSMEM
DOMAIN
 MACACA MULATTA (RHESUS MACAQUE)
EUKARYOTA; METAZOA; CHORDATA; VI
EUTHERIA; PRIMATES.
 TRANSMEM
 DOMAIN
 DOMAIN
 G-PROTEIN
 EMBL; AF017282;
 -!- SUBCELLULAR LOCATION:
-!- SIMILARITY: BELONGS TO
 CMKBR1.
 SEQUENCE
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 TRANSMEM
 DOMAIN
 PROSITE;
 GCRDB;
 299
 299
 239
 239
 179
 179
 119
 119
 59
 59
 ш
 Н
 METP-NTTEDYDTTTEFDYGDATP-CQKVNERAFGAQLLPPLYSLVFVIGLVGNILVVLV
 VIYAFVGERFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF
 VIYAFVGERFRKYLRQLFHRRVAVHLVKWLPFLSVDRLERVSSTSPSTGEHELSAGF
 RLIEVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMNP
 EETLCSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAI
 THHTCSLHFPHESLREWKLFQALKLNLFGLVLPLLVMIICYTGIIKILLRRPNEKKSKAV
 SEIFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELF
 MTTSLDTVETFGTTS-Y-YDDVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMI
 RLIFVIMIIFFLFWTPYNLTILISVFQDFLFTHECEQSRHLDLAVQVTEVIAYTHCCVNP
 SEIFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIIIWALAILASMPGLYFSKTQWEF
 GCR_2470;
 COUPLED
 Conservative
A,
 G2407217;
 36, CREATED)
36, LAST SEQUENCE UPDATE)
36, LAST ANNOTATION UPDATE)
EPTOR TYPE 1 (C-C CKR-1) (CC-CKR-1) (CCR-1).
 54
54
54
107
129
146
41198
 PROTEIN_
 or.
 INTEGRAL MEMBRANE PROTEIN COLO FAMILY 1 OF G-PROTEIN COL
M.
 RECEPTOR;
 Pred. No. 1.89e-288;
67; Mismatches 61;
 POTENTIAL.
BY SIMILAR
 TRANSMEMBRANE;
 CYTOPLASMIC (POTENTIAL)
 EXTRACELLULAR (POTENTIAL)
7 (POTENTIAL).
 CYTOPLASMIC
 EXTRACELLULAR (POTENTIAL)
 CYTOPLASMIC
 EXTRACELLULAR
 CYTOPLASMIC
2 (POTENTIA
 EXTRACELLULAR
 VERTEBRATA;
 PRT;
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL
 9FC609E9
 SIMILARITY
 355
 (POTENTIAL).
 æ
 (POTENTIAL).
 (POTENTIAL).
 TETRAPODA; MAMMALIA;
 (POTENTIAL)
 (POTENTIAL)
 GLYCOPROTEIN (POTENTIAL).
 COUPLED RECEPTORS
 Indels
 4.
 Gaps
 355
 355
 178
 118
 58
 238
 238
 178
 58
 4.
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Length

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 B
 В
 Query Match
Best Local S
Matches 21
-!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTE:
-!- TISSUE SPECIFICITY: DETECTED IN THE HEART, SPI
PERITONEAL EXUDATE CELLS AND LEUKOCYTES.
-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN (
EMBL; U29678; G1109786; -.
EMBL; U29678; G1109786; -.
EMBL; U29678; G181548; -.
GCRDB; GCR_1672; -.
GCRDB; GCR_1698; -.
GCRDB; GCR_1
 P5167;
P5167;
P5167;
P51677;
P51677;
P51677;
P51677;
P51677;
P61677;
P71677;
P
 GAO J.-L., MURPHY P.M.;
J. BIOL. CHEM. 270:17494-17501(1995).
-:- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA,
RANTES, AND LESS EFFICIENTLY, TO MIP-1-BETA OR MCP-1 AND
SUBSEQUENTLY TRANSDUCES A SIGNAL BY INCREASING THE INTRACELLULAR
CALCIUM IONS LEVEL. RESPONSIBLE FOR AFFECTING STEM CELL
 CKR1
 GERARD
 STRAIN-129/SV;
 STRAIN-129
 J.
[2]
 MUS MUSCULUS (MOUSE).
EUKARYOTA; METAZOA; CHORDATA;
 SEQUENCE FROM N.A.
 EUTHERIA;
 MEDLINE; 95340546.
 SEQUENCE FROM N.A.
 298
 298
 238
 238
 178
 179
 119
 119
 59
 59
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 μ.
 PROLIFERATION.
 T.W., BOZIC C.R.,
 VRLIFVIMIIFFLFWTPYNLTELISVFQEFLFTHLCEQNRQLDLAMEVTEVIANMHCCVN 297
 VRHS-CNIHFPYESFQQWKLFQALKLNLFGLVLPLLVMIVCYTGIIKILLRRPNEKKSKA
 MOUSE
 PVIYAFAGERFRKYLRQLFHRRVAVHLVKWLPFLSGDRLERVSSTSPSTGEHELSAGF
 SEIFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIIIWALAILASSPLMYFSKTQWNI
 LVQYKRLKNMTNIYLLNLAISDLLFLFTLPFLIYYKSTDDWIFGDAMCKILSGFYYTGLY 118
 MTTSLDTVETEG-TTSY-YDDVGLLCEKADTRALMAQEVPPLYSLVETVGLLGNVVVVMI
 METP-NTTEDYDMITEFDYGDATP-CHKVNERAILAQLLPPLYSLVFVIGVVGNLLVVLV
 PVIYAFVGERFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF
 IRLIEVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMN
 FEETLCSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKA
 215;
 Similarity
 96072806
 LVS/t
 155:5299
 62.4%;
larity 60.1%;
Conservative
 TISSUE-PERITONEAL MACROPHAGE;
 STANDARD;
 -5305(1995)
 ROTHENBERG
 _RECEPTOR; 1.
TRANSMEMBRANE.
EXTRACELLULAR (POTENTIAL)
1 (POTENTIAL).
 Score 1723; DB 1;
Pred. No. 6.66e-269;
69; Mismatches 68;
 VERTEBRATA;
 PRT;
 M.E.,
 355
 G-PROTEIN
 LUSTER
 B
 TETRAPODA;
 SPLEEN,
 A.D.,
 COUPLED
 Indels
 MAMMALIA;
 GERARD
 RECEPTORS
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 Gaps
 178
 58
 297
 237
 237
 177
 58
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RESULT AC POSS MALE CO-COC PROCESS MALE COC PROCESS MALE RAY WAS SIZED FOR THE PROCESS
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 S
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 밁
 Matches
 Query Match
Best Local
SEQUENCE FROM N.A.
SPECIES-M.MULATTA; STRAIN-INI
MEDLINE; 97213934.
CHEN Z., ZHOU P., HO D.D., LA
J. VIROL. 71:2705-2714(1997).
[3]
 SEQUENCE FROM N.A.
SPECIES-M.MULATTA;
MEDLINE; 97184592
MARCON L., CHOE H., MARTIN K.A.
NEWMAN W., GERARD N., GERARD C.
J. VIROL. 71:2522-2527(1997).
 CKR5_MACMU STAN
P79436; 002746;
01-NOV-1997 (REL. 3
01-NOV-1997 (REL. 3
15-JUL-1998 (REL. 3
 TRANSMEM DOMAIN
 TRANSMEM
DOMAIN
TRANSMEM
DOMAIN
 DISULFID
 TRANSMEM
DOMAIN
 TRANSMEM
DOMAIN
 MACAQUE).
 MACACA MULATTA (RHESUS MACAQUE), MACAQUE) (CYNOMOLGUS MONKEY), ANI
 CMKBR5
 C-C CHEMOKINE
 SEQUENCE
 DOMAIN
 TRANSMEM
 EUTHERIA;
 EUKARYOTA;
 DOMAIN
 300
 300
 240
 240
 180
 180
 120
 120
 60
 60
 Н
 \mathbf{L}
 IYVFVGERFWKYLRQLFQRHVAIPLAKWLPFLSVDQLERTSSISPSTGEHELSAGF
 HRTCSPHFPYKSLKQWKRFQALKLNLLGLILPLLVMIICYAGIIRILLRRPSEKKVKAVR
 EIFFIILLTIDRYLAIVHAVFALRARTVTLGIITSIITWALAILASMPALYFFKAQWEFT 179
 MEIS-DFTEAYPTTTEFDYGDSTPCQKTAVRAFGAGLLPPLYSLVFIIGVVGNVLMILVL
 LIFAITLLFFLLWTPYNLSVFVSAFQDVLFTNQCEQSKHLDLAMQVTEVIAYTHCCVNPI 299
 ETLCSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIR
 EIFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFE
 IKYRRLRIMINIYLLNLAISDLLFLVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYS
 MQHRRLQSMTSIYLFNLAVSDLVFLFTLPFWIDYKLKDDWIFGDAMCKLLSGFYYLGLYS 119
 MTTSLDTVETFGTTSYYD-DVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMIL
 Similarity
207; Conser
 PRIMATES
 METAZOA;
 108
108
130
147
172
198
198
205
205
 Conservative
 RECEPTOR
 À,
 STANDARD;
 35, CREATED)
35, LAST SEQUENCE UPDATE)
36, LAST ANNOTATION UPDATE)
26, LAST ANNOTATION (CC-CKR-5) (CCR-5) (CCR5).
 62.2%;
58.1%;
 STRAIN-INDIAN MACAQUE
 54
107
129
146
171
171
197
223
239
239
239
239
355
355
 CHORDATA;
 40901
 WW;
 LANDAU
 Pred.
83; }
 Score 1718; DB 1;
Pred. No. 5.05e-268
 C . A
 BY SIMILARITY.
M -> V (IN REF. 2).
; A842B9D8 CRC32;
 CYTOPLASMIC
 EXTRACELLULAR (POTENTIAL)
7 (POTENTIAL).
 CYTOPLASMIC
 CYTOPLASMIC
 EXTRACELLULAR
3 (POTENTIAL)
 CYTOPLASMIC (POTENTIAL).
2 (POTENTIAL).
 EXTRACELLULAR
 VERTEBRATA;
 AND
 PRT;
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 FARZAN M.,
SODROSKI J.
 MACACA FASCICULARIS
D MACACA NEMESTRINA (
 Mismatches
 N.R.,
 352
 MARX P.A.;
 B
 (POTENTIAL)
 (POTENTIAL).
 (POTENTIAL).
 TETRAPODA;
 (POTENTIAL)
 (POTENTIAL)
 PONATH
 Length
 Indels
 P.D.,
 (PIG-TAILED
 (CRAB EATING
 MAMMALIA;
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 2
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 355
 Gaps
 119
 59
 239
 59
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 Matches
 Query Match
Best Local Similarity
 EMBL; U77672; G1850350; -...

EMBL; U777672; G1850350; -...

EMBL; U737739; G1771981; -...

EMBL; U96762; G2088633; -...

EMBL; AF005660; G2245616; -...

EMBL; AF005662; G2245618; -...

GCRDB; GCR_1296; -...

GCRDB; GCR_1396; -...

GCRDB; GCR_1370; -...

GCRDB; GCR_1371; -...
 CONFLICT
CONFLICT
SEQUENCE
 TRANSMEM
DOMAIN
 TRANSMEM
DOMAIN
 GCRDB; GCR_1639; GCRDB; GCR_1641; PROSITE; PS00237;
 CARBOHYD
 DISULFID
 G-PROTEIN COUPLED
 PROC.
 EDINGER A.L., AMEDEE A., SHARRON M., SAMSON M., I
 MEDLINE;
 SEQUENCE FROM N.A.
 SUBMITTED (APR-1997)
 SPECIES=M.MULATTA;
HAUER D.A., MARGUL
 SEQUENCE FROM
 DOMAIN
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 DOMAIN
 DOMAIN
 PEIPER S.
 TRANSMEM
 TRANSMEM
 TRANSMEM
 197
 144
 139
 84
 08
 24
 20
 NOGR A.L., AMEDEE A., MILLER K., DORANZ B.J., ENDRES M.,
RRON M., SAMSON M., LU Z.H., CHENTS J.E., MURPHEY-CORB M.,
PER S.C., PARKMENTIER M., BRODER C.C., DOMS R.W.;
C. NATL. ACAD. SCI. U.S.A. 94:4005-4010(1997).
MIP-1-BETA AND RAYIES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY
INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL. MAY PLAY A ROLE
INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL. MAY PLAY A ROLE
 SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
 IN THE CONTROL
 COKINVKOIAARLLPPLYSLVFIFGFVENILVVLILINCKRLKSMTDIYLLNLAISDLLF 79
RMTIFCLVLPLLVMAICYTGIIKTLLRCPS-KKKYKAIRLIFVIMAVFFIFWTPYNVAIL
 KMVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPVNIVLL 256
 ARTVTEGVVTSVITWVVAVFASLPGIIFTRSQREGLHYT-CSSHEPYSQ-YQFWKNEQTL 196
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALK 138
 CEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLF
 LVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALR 143
 ARTVTFGVITSIVTWGLAVLAALPEFIFYETE-ELFEETLCSALYPEDTVYS-WRHFHTL
 ES-M.
 M.MULATTA, M.FASCICULARIS, 97268687.
 MARGULIES
 Conservative
 N.A.
 AA;
 RECEPTOR;
 260
277
301
352
178
 OF GRANULOCYTIC LINEAGE PROLIFERATION OR
 54.6%;
 PROTEIN_RECEPTOR; 1.
 40507 MW;
 S B.J., CLEMENTS J.E.;
TO EMBL/GENBANK/DDBJ DATA BANKS
 Score 1507; DB 1; 1
Pred. No. 5.67e-231;
83; Mismatches 57;
 TRANSMEMBRANE;
 , ,
,
 CYTCPLASMIC (POTENTIAL)
BY SIMILARITY.
 5 (POTENTIAL)
CYTOPLASMIC (
 EXTRACELLULAR (POTENTIAL)
 EXTRACELLULAR (POTENTIAL).
 CYTOPLASMIC
 EXTRACELLULAR (POTENTIAL)
 CYTOPLASMIC
2 (POTENTIAL
 POTENTIAL.
 EXTRACELLULAR (POTENTIAL).
 -> I (IN REF. 3).
-> M (IN REF. 3).
9E6826EC CRC32;
 (POTENTIAL)
 (POTENTIAL)
 (FOTENTIAL).
 (POTENTIAL)
 (POTENTIAL).
 (POTENTIAL).
 AND M. NEMESTRINA;
 (POTENTIAL)
 (POTENTIAL).
 (POTENTIAL).
 GLYCOPROTEIN.
 Length 352;
 Indels
 TO MIP-1-ALPHA,
A SIGNAL BY
 9;
 Gaps
260
 201
 83
 9
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 Query Match
Best Local S
Matches 18
 CKR5_CERAE
P56493;
15-JUL-1998
15-JUL-1998
15-JUL-1998
 TRANSMEM
DOMAIN
DISULFID
 TRANSMEM DOMAIN
 DOMAIN
TRANSMEM
 DOMAIN
TRANSMEM
 J. VIROL. 71:8642-8656(1997).

-:- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA,
MIP-1-BETA AND RANTES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY
INCREASING THE INTERCELLULAR CALCIUM IONS LEVEL, MAY PLAY A ROLE
IN THE CONTROL OF GRANULOCYTIC LINEAGE PROLIFERATION OR
 VARIANT
 -!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED EMBL; U83324; G2347108; -.
EMBL; U83325; G2347110; -.
 CERCOPITHECUS AETHIOPS (GREEN MONKEY) (GRIVET).
EUKARYOTA; METAZOA; CHORDATA; VERTEBRATA; TETRAPODA;
 C-C CHEMOKINE RECEPTOR
 SEQUENCE
 G-PROTEIN
 PROSITE;
 GCRDB;
 J. VIROL. 71:8642-8656(1997).
 TISSUE-KIDNEY
 SEQUENCE FROM N.A.
 EUTHERIA; PRIMATES
 CMKBR5
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 320 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 257
 80
 20
 24
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALK 138
 CEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLF
 CQKINVKQIAARLLPPLYSLVEIFGEVGNILVVLILINCKRLKSMTDIYLLNLAISDLLF
 LNTFQEF-FGLNNCSSSNRLDQAMQVIETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH
ARTVTFGVVTSVITWVVAVFASLPRIIFTRSQREGLHYT-CSSHFPYSQ-YQFWKNFQTL
 LVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALR
 LSSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH
 φ
 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV 350
 186;
 Similarity
 98001387
 COUPLED
 352
352
 REL.
 Conservative
 STANDARD;
 36, CREATED)
36, LAST SEQUENCE UPDATE)
36, LAST SEQUENCE UPDATE)
36, LAST ANNOTATION UPDATE)
EPTOR TYPE 5 (C-C CKR-5) (CC-CKR-5) (CCR-5).
 RECEPTOR;
 54.3%;
 40561 MW;
 PROTEIN_RECEPTOR; 1.
 KOZAK S.L., KABAT D.;
 Score 1499; DB 1;
Pred. No. 1.43e-229;
83; Mismatches 59;
 CYTOPLASMIC (POBY SIMILARITY. N -> Y. F -> L.
 RANSMEMBRANE;
 EXTRACELLULAR (POTENTIAL)
7 (POTENTIAL).
 CYTOPLASMIC
6 (POTENTIAL
 EXTRACELLULAR 5 (POTENTIAL)
 CYTOPLASMIC
 EXTRACELLULAR
3 (POTENTIAL)
 CYTOPLASMIC
 PRT;
 (POTENTIAL)
 (POTENTIAL
 (POTENTIAL
 (POTENTIAL)
 9CA7E235 CRC32;
 (POTENTIAL)
 (POTENTIAL)
 352
 (POTENTIAL)
 ⋧
 (POTENTIAL).
 (POTENTIAL).
 (POTENTIAL).
 (POTENTIAL)
 (POTENTIAL)
 GLYCOPROTEIN;
 (POTENTIAL)
 Length
 Indels
 MAMMALIA;
 POLYMORPHISM
 RECEPTORS
 9
 Gaps
 196
 143
 83
 79
 9
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 g
 CKR5_PAPHA
P56441;
P56441;
Query Match
 SPECIES-P. ANUBIS;
BENTON P.A., TIMANUS D.K., SHEARER M.H., LEE D.R., KENNEDY R.C.;
SUBMITTED (NOV-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.

-i- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA,
MIP-1-BETA AND RANTES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY
INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL. MAY PLAY A ROLE
INCREASING THE OF CHANTICATYPTIC LINEAGE PROLIFERATION OR
 15-JUL-1998
15-JUL-1998
15-JUL-1998
 DOMAIN
DISULFID
 TRANSMEM
DOMAIN
 DOMAIN
TRANSMEM
 -!- SUBCELLULAR LOCATION: IN

-!- SIMILARITY: BELONGS TO FI

EMBL; AF005658; G2245610; -.

EMBL; AF023452; G2564676; -.
 SPECIES-P. HAMADRYAS;
 EDINGER A.L., AMEDEE A., MILLER K., DORANZ B.J., ENDRES M., SHARRON M., SAMSON M., LU Z.H., CLEMENTS J.E., MURPHEY-CORB PEIPER S.C., PARMENTIER M., BRODER C.C., DOMS R.W.; PROC. NATL. ACAD. SCI. U.S.A. 94:4005-4010(1997).
 SEQUENCE FROM N.A.
 EUKARYOTA; METAZOA;
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 MEDLINE; 97268687.
 TRANSMEM
 TRANSMEM
 TRANSMEM
 PROSITE;
 144
 320
 316
 261
 257
 197
 CHEMOKINE
 DIFFERENTIATION
 LEMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSIVF
 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQETSVGF 352
 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH
 HAMADRYAS (HAMADRYAS
 PRIMATES
 COUPLED
 (REL. 36, CREATED)
(REL. 36, LAST SEQUENCE UPDATE)
(REL. 36, LAST ANNOTATION UPDATE)
(REL. 36, LAST ANNOTATION UPDATE)
 59
69
90
103
142
 STANDARD;
 G_PROTEIN_RECEPTOR; 1.
 588
 CHORDATA;
 54.3%;
 40489
 INTEGRAL
 FAMILY 1
 BABOON), AND PAPIO ANUBIS
 Score 1498;
 TRANSMEMBRANE; GLYCOPROTEIN EXTRACELLULAR (POTENTIAL).
 EXTRACELLULAR (POTENTIAL)
5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
6 (POTENTIAL).
 7 (POTENTIAL)
CYTOPLASMIC (
 EXTRACELLULAR (POTENTIAL)
7 (POTENTIAL).
 CYTOPLASMIC (P
4 (POTENTIAL).
 EXTRACELLULAR (POTENTIAL)
3 (POTENTIAL).
 CYTOPLASMIC
2 (POTENTIA
 POTENTIAL
 VERTEBRATA;
 PRT;
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL).
 SIMILARITY.
 MEMBRANE PROTEIN
 352
 CRC32;
 Ą
 DB 1;
 (POTENTIAL)
 (POTENTIAL).
 (POTENTIAL).
 TETRAPODA;
 355
 Length 352;
 COUPLED
 (CCR-5) (CCR5).
 MAMMALIA;
 (OLIVE BABOON)
 RECEPTORS
 X
 315
 260
 256
 201
STITITION TO THE THEFT THE THEFT THE TRANSCOOLS
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 RESULT
 320
 316
 261
 257
 202
 197
 144
 139
 84
 80
 24
 20
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OCKES_RAT

CORS56;

01-NOV-1997 (REL. 35, CRE)

01-NOV-1997 (REL. 35, LAS

1 01-NOV-1997 (REL. 35, LAS
 Matches 185; Conser
 DISULFID CARBOHYD
 DOMAIN
TRANSMEM
DOMAIN
 GCRDB; GCR_1470;
PROSITE; PS00237;
 SUBMITTED (MAR-1997) TO EMBL/GENBANK/DDBJ DATA BANKS -!- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINI
 STRAIN-WISTAR;
 SEQUENCE FROM N.A.
 RATTUS NORVEGICUS
 DOMAIN
 TRANSMEM
 DOMAIN
 DOMAIN
 DOMAIN
 G-PROTEIN
 EMBL; Y12009;
 -!- SUBCELLULAR LOCATION: INTEGRAL
 GEBICKE-HAERTER P.
 SPLEISS O.,
 EUKARYOTA;
 ALPHA RECEPTOR).
 TRANSMEM
 DOMAIN
 TRANSMEM
 TRANSMEM
 TRANSMEM
 TRANSMEM
 DOMAIN
 EUTHERIA;
 MIP-1-BETA AND RANTES AND SUBSEQUENTLY TRANSDUCES A INCREASING THE INFRACELIULIAR CACIUM IONS LEVEL. SUBCELLULAR LOCATION: INTEGRAL MOUDEN OF THE LOCATION:
 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI
 ARTVTFGVITSIVTWGLAVLAALPEFIFYETE-ELFEETLCSALYPEDTVYS-WRHEHTL
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALK 138
 CQKINVKQIAARLLPPLYSLVFIFGFVGNILVVLILINCKRLKSMTDIYLLNLAISDLLF
 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV
 CEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLF
 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH
 ARTVTEGVVTSVITWVVAVFASLPGIIFTRSQREGLHYT-CSSHFPYSQ-YQFWKNFQTL 196
 LVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALR
 COUPLED
 GOURMALA N.,
 Conservative
 E309267;
 TISSUE-BRAIN;
 (RAT)
 35, CREATED)
35, LAST SEQUENCE UPDATE)
35, LAST ANNOTATION UPDATE)
SPTOR TYPE 5 (C-C CKR-5) (CC
 32
60
70
104
126
126
143
168
168
220
220
220
237
237
237
237
237
237
237
237
237
 41030
 PROTEIN_
 CHORDATA;
 BODDEKE H.W.G.M.,
 W.
 Pred.
84; N
 RECEPTOR;
 TRANSMEMBRANE;
 EXTRACELLULAR (POTENTIAL)
7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
BY SIMILARITY.
 5 (POTENTIAL)
CYTOPLASMIC (
 EXTRACELLULAR
3 (POTENTIAL)
POTENTIAL.
35165BF7 CRC32;
 CYTOPLASMIC
 CYTOPLASMIC
 EXTRACELLULAR
 EXTRACELLULAR
 VERTEBRATA;
 PRT;
 (POTENTIAL
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 No. 2.14e-229; Mismatches 57;
 CKR-5) (CC-CKR-5)
 얶
 354
 G-PROTEIN
 350
 A
 (POTENTIAL).
 (POTENTIAL).
 (POTENTIAL).
 TETRAPODA;
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 GLYCOPROTEIN
 SAUTER
 COUPLED
 Α.,
 Indels
 (CCR-5) (MIP-1
 MAMMALIA;
 ×
 BERGER
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 SIGNAL
 RECEPTORS
 MIP-1-ALPHA,
 9;
 X
 Gaps
 319
 256
 83
 79
 260
 201
 9
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 Query Match
Best Local Similarity
Matches 181; Conser
 TRANSMEM
DOMAIN
 TRANSMEM
DOMAIN
 TRANSMEM
DOMAIN
 EDINGER A.L., AMEDEE A., MILLER K., DORANZ B.J., ENDRES M.,
SHARRON M., SAMSON M., LU Z.H., CLEMENTS J.E., MURPHEY-CORB M.,
PEIPER S.C., PARKENTIER M., BRODER C.C., DOMS R.W.,
PROC. NATL. ACAD. SCI. U.S.A. 94:4005-4010(1997).

FROC. NATL. ACAD. SCI. U.S.A. 94:4005-4010(1997).

FUNCTION: RECEPTOR FOR A. C-C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA,
MIP-1-BETA AND RAWIES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY
INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL, MAY PLAY A ROLE
 CKR5
 G-PROTEIN
 PROSITE;
 -!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COLEMBL; AF005659; G2245612; -.
 SEQUENCE FROM N.A.
 EUTHERIA; PRIMATES
 EUKARYOTA; METAZOA;
 GORILLA GORILLA (LOWLAND GORILLA)
 ი
ი
 15-JUL-1998 (REL.
15-JUL-1998 (REL.
15-JUL-1998 (REL.
 P56439;
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEM
 DOMAIN
 TRANSMEN
 DOMAIN
 TRANSMEM
 321
 203
 200
 144
 141
 262
 260
 84
 82
 24
 22
 CHEMOKINE
 12
 DIFFERENTIATION
 IN THE CONTROL OF GRANULOCYTIC LINEAGE
 TTFQEY-FGLNNCSSSNRLDQAMQVTETLGMTHCCLNPVIYAFVGEKFRNYLSVFFRKHI 318
 ARTVNFGVITSVVTWVVAVFVSLPEIIFMRSQKEGSHYTCSPHFLH-IQYRFWKHFQTLK 199
 LLTLPEWAHYA-ANEWVEGNIMCKLETGIYHIGYEGGIFFIILLTIDRYLAIVHAVEAIK 140
 CQKVNVKQIAAQLLPPLYSLVFIFGFVGNMVFLILISCKKLKSMTDIYLFNLAISDLLF 81
 GORGO
 LMHLGRYIPFLPSEKLERTSSV-SPSTAEPELS
 SSYQSILFG
 MTIFCLVLPLLVMAICYTGIIKTLLRCPS-KKKYKAIRLIFVIMAVFFIFWTPYNVAILL
 MVILSLILPLLVMVICYSGILNTLFRCRNEKKRHRAVRLIFAIMIVYFLFWTPYNIVLLL 259
 VKRFCKHCSIFQQVNPDRVSSVYTRSTGEQEVS
 ARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEETLCSALYPEDTVYS-WRHFHTLR 202
 LVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALR 143
 GCR_1372;
E; PS00237;
 97268687
 COUPLED
31
59
69
103
125
142
142
149
2199
2199
2366
 Conservative
 RECEPTOR
 - NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRHL
 STANDARD;
 G_PROTEIN_
RECEPTOR;
 36,
36,
30
58
68
102
1102
1124
1141
1166
1198
218
218
218
218
218
 54.18;
 CHORDATA;
 PROTEIN_RECEPTOR; 1
 CREATED)
LAST SEQUENCE UPDATE)
LAST ANNOTATION UPDATE)
DR TYPE 5 (C-C CKR-5) (CC-CKR-5) (CCR-5).
 FAMILY 1 OF G-PROTEIN COUPLED
 TRANSMEMBRANE;
 Score 1492; DB 1;
Pred. No. 2.41e-228;
82; Mismatches 63;
 EXTRACELLULAR (POTENTIAL)
 CYTOPLASMIC (
6 (FOTENTIAL)
 EXTRACELLULAR (POTENTIAL)
 CYTOPLASMIC
 EXTRACELLULAR (POTENTIAL)
 CYTOPLASMIC
 EXTRACELLULAR
 VERTEBRATA; TETRAPODA; MAMMALIA;
 PRT;
(FOTENTIAL).
 (FOTENTIAL)
 (FOTENTIAL)
 (FOTENTIAL).
 (FOTENTIAL)
 (FOTENTIAL).
 352
 352
 351
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 (POTENTIAL).
 (POTENTIAL).
 (POTENTIAL).
 GLYCOPROTEIN. (POTENTIAL).
 PROLIFERATION
 Length
 Indels
 OR.
 RECEPTORS
 7;
 Gaps
 261
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 SOFT
 Query Match
Best Local S
Matches 18
 DOMAIN
DISULFID
SEQUENCE
 CKR5_MOUSE STANDARD; PTT; 354 AA.
P51682; Q61867; P97405; O35313; P97308; O35891;
01-OCT-1996 (REL. 34, CREATED)
15-JUL-1998 (REL. 36, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
C-C CHEMOKINE RECEPTOR TYPE 5 (C-C CKR-5) (CC-CKR-5) (MIP-1
 STRAIN-129/SVJ; TISSUE-SPLEEN
MEDLINE; 96205938.
BORING L., GOSLING J., MONTECI
 STRAIN-C578L/6 X CBA; TISSUE-THYMUS; MEDLINE; 96278910.
MEYER A., COYLE A.J., PROUDFOOT A.E.I., J., BIOL. CHEM. 271:14445-14451(1996).
 MEDLINE; 98001387.
KUHMANN S.E., PLAT
 SUBMITTED (DEC-1996)
 STRAIN=129/OLA;
KUZIEL W.A., BE
 CHARO
 MUS MUSCULUS (MOUSE).
EUKARYOTA; METAZOA; C
 CMKBR5
 ALPHA RECEPTOR).
MEDLINE; 97404635
 SEQUENCE FROM N.A.
 J. VIROL. 71:8642-8656(1997)
 STRAIN=C57BL/6,
 SEQUENCE FROM N.A
 SEQUENCE FROM N.A
 SEQUENCE FROM N.A.
 EUTHERIA; RODENTIA.
 320
 197
 144
 EQUENCE FROM N.A.
 202
 139
 84
 80
 24
 20
 BIOL. CHEM. 271:7551-7558(1996).
 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH
 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV 350
 LVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALR
 CEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLF
 LSSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH
 RMTIFCLVLPLLVMAICYTGIIKTLLRCPS-KKKYKAIRLIFVIMAVFFIFWTPYNVAIL
 ARTVTFGVITSIVTWGLAVLAALPEFIFYETE-ELFEETLCSALYPEDTVYS-WRHFHTL
 ARTVIEGVVISVITWVVAVFASLPGIIFTRSQKEGLHYT-CSSHFPYSQ-YQFWKNEQTL
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALK
 CQKTNVKQIAARLLPPLYSLVFIFGFVGNMLVILILINCKRLKSMTDIYLLNLAISDLFF
 I.F.;
 Similarity
 302
101
352
 BECK M.A., L
 53.9%;
larity 54.6%;
Conservative
 PLATT E.J.,
 AA;
 AND NIH/SWISS; TISSUE=LIVER, KIDNEY,
 352
178
40515
 CHORDATA; VERTEBRATA;
 MONTECLARO F.S.,
 DAWSON T.C., MAEDA EMBL/GENBANK/DDBJ |
 KOZAK
 WW;
 Score 1489; DB 1;
Pred. No. 8.08e-228;
87; Mismatches 56;
 CYTOPLASMIC (POTENTIAL).
BY SIMILARITY.
 0AD97B12
 S.L.,
 LUSIS
 WELLS
 CRC32;
 DATA
 TETRAPODA;
 z
 T.N.C.,
 А.J.,
 BANKS
 Length 352;
 Indels
 TSOU
 AND SPLEEN
 MAMMALIA;
 POWER
 C.-L.,
 9
 9
 Gaps
 319
 196
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 138
 83
 79
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 256
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 Query Match
Best Local
 Matches
 EMBL: D83648; G17773
GCRDB; GCCR_1150; --
GCRDB; GCR_1645; --
GCRDB; GCR_1656; --
GCRDB; GCR_1729; --
GCRDB; GCR_2449; --
GCRDB; GCR_2440; --
 CONFLICT
CONFLICT
CONFLICT
CONFLICT
 VARIANT
VARIANT
 CARBOHYD
VARIANT
 DOMAIN
DISULFID
 GUO B., KUNO K., HARADA A., MATSUSHIMA K.;
SUBMITTED (JAN-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
-I- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO MIP-1-ALP
MIP-1-BETA AND RANTES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY
INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL.
-I- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-I- TISSUE SPECIFICITY: DETECTED IN MONOCYTE/MACROPHAGE CELL LINES,
BUT NOT IN NONHEMATOPOIETIC CELL LINES.
-I- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
 [6]
 VARIANT
VARIANT
 GCRDB; GCR_2554; -.
MGD; MGI:107182; CMKBR5
PROSITE; PS00237; G_PRO
 DORANZ B.J., LU WANG Z.X., GUO H
 G-PROTEIN
 SEQUENCE
 VARIANT
 VARIANT
 VARIANT
 VARIANT
 VARIANT
 VARIANT
 TRANSMEM
 DOMAIN
 TRANSMEM
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 TRANSMEM
 DOMAIN
 SEQUENCE FROM N.A.
 DOMAIN
 CRANSMEM
 24
 22
 ... U47036; G1237136; ... X94151; E218395; ... U68565; G1698716; ... U83327; G2347114; ... AF012772; G23471487; ... AF012772; G2441487; ...
 CQKINVKQIAAQLLPPLYSLVFIFGFVGNMAVFLILISCKKLKSVTDIYLLNLAISDLLF
CEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLF
 . Similarity
181; Conse
 J., LU Z.H., RUCKER J., ZHANG T.Y., SHARRON M., GUO H.H., DU J.G., ACCAVITII M.A., DOMS R.W., 71:6305-6314(1997).
 COUPLED
 145
354
 Conservative
 G1777330;
 AA;
 G_PROTEIN_
RECEPTOR;
 53.9%;
 40863
 MW.
 Score
Pred.
 7 (POTENTIAL).
CYTOPLASMIC (PC
BY SIMILARITY.
 RECEPTOR; 1.
TRANSMEMBRANE; GLYCOPROTEIN;
 z ¬ = r ¬
 EXTRACELLULAR (POTENTIAL)
 CYTOPLASMIC
 EXTRACELLULAR (POTENTIAL)
 4 (POTENTIAL)
 CYTOPLASMIC
 3 (POTENTIAL)
 EXTRACELLULAR (POTENTIAL)
 POTENTIAL.
 2 (POTENTIAL)
 EXTRACELLULAR (POTENTIAL)
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 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 6ECD306A
 Mismatches
 1488; DB 1;
No. 1.21e-227;
 REF. 2
REF. 3
REF. 3
REF. 1
REF. 5
 (POTENTIAL).
 (POTENTIAL)
 (POTENTIAL).
 (POTENTIAL).
 55.22
 63;
 Length
 Indels
 TO MIP-1-ALPHA,
 CEN Y.H.,
PEIPER S.C.;
 POLYMORPHISM
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 Gaps
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 CKR5_PANTR STANDARD;
P56440; O02778;
15-JUL-1998 (REL. 36, CR
15-JUL-1998 (REL. 36, LA
15-JUL-1998 (REL. 36, LA
C-C CHEMOKINE RECEPTOR T
 AIDS
 SEQUENCE FROM N.A.
MEDLINE; 98022612.
ZHANG L., CARRUTHERS C.D.,
 PROC.
 SEQUENCE FROM N.A.
MEDLINE; 98090115.
PRETET J.-L., ZERBIB
 SEQUENCE FROM N.A.
MEDLINE; 97426118.
ZACHAROVA V., ZACHAR V.,
 HO D
 PAN TROGLODYTES (CHIMPANZEE).
EUKARYOTA; METAZOA; CHORDATA;
EUTHERIA; PRIMATES.
 SEQUENCE FROM N.
 CMKBR5
 AIDS
 321
 144
 319
 141
 262
 260
 203
 200
 84
 82
 DIFFERENTIATION
 RES.
AF011540; G230519
U89797; G2281445;
 97268687.
 HUM.
 HUM.
 RETROVIRUSES
 STANDARD;
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LMHLGRYIPFLPSEKLERTSSV-SPSTAEPELS
 VRTVNFGVITSVVTWVVAVFASLPEIIFTRSQKEGFHYT-CSPHFPHTQYHFWKSFQTLK
 LLTLPEWAHYA-ANEWIFGNIMCKVFTGVYHIGYFGGIFFIILLTIDRYLAIVHAVFALK
 VKRFCKRCSIFQQDNPDRVSSVYTRSTGEHEVS
 SSYQSILFG-NDCERSKHLDLYMLYTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRHL
 TTFQEF-FGLNNCSSSNRLDQAMQATETLGMTHCCLNPVIYAFVGEKFRSYLSVFFRKHI
 ARTVTFGVITSIVTWGLAVLAALPEFIFYETE-ELFEETLCSALYPEDTVYSWRHFHTLR
 LVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALR
PRT;
 352
 351
B
 143
 318
 199
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 320
 261
 259
 202
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SEQUENCE FROM N.A. BUCKLER-WHITE A., ALKHATIB SUBMITTED (MAR-1997) TO EMBL/GENBANK/DDBJ I
 EDINGER A.L., AMEDEE A., MILLER K., DORANZ B.J., ENI
SHARRON M., SAMSON M., LU Z.H., CLEMENTS J.E., MURPI
PEIPER S.C., PARMENTIER M., BRODER C.C., DOMS R.W.;
PROC. NATL. ACAD. SCI. U.S.A. 94:4005-4010(1997).
-!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COU
EMBL, AF005663; G2245620; -.
EMBL; U94329; G2145188; -.
EMBL; AF011542; G2305202; -.
EMBL; U97666; G2327059; -.
EMBL; AF011540; G2305198; -.
 TET J.-L., ZERBIB A., GIRARD M., GUILLET J.-G., BUTOR C.; S RES. HUM. RETROVIRUSES 13:1583-1587(1997).
FUNCTION: RECEPTOR FOR A C-C TYPE CHEMCKINE. BINDS TO MI MIP-1-BETA AND RANTES AND SUBSEQUENTLY TRANSDUCES A SIGN INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL. MAY PLA IN THE CONTROL OF GRANULOCYTIC LINEAGE PROLIFERATION OR
 ZACHAR V., GOUSTIN A.S.;
RETROVIRUSES 13:1159-1161(1997).
 36, CREATEL)
36, LAST SEQUENCE UPDATE)
36, LAST SEQUENCE UPDATE)
.36, LAST ANNOTATION UPDATE)
CEPTOR TYPE 5 (C-C CKR-5) (CC-CKR-5) (CCR-5).
 HE T.,
 13:1357-1366(1997).
 VERTEBRATA; TETRAPODA;
 HUANG Y.,
 B G.;
DATA
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 BANKS
 MURPHEY-CORB
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 COUPLED
 BINDS TO MIP-1-ALPHA
 ENDRES
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Matches 18
 CARBOHYD
CONFLICT
SEQUENCE
 CKR5_HUMAN STANDARD; PRT; 352 AA.
P51681; O14692; O14693; O14695; O14696; O14697; O1469
01-OCT-1996 (REL. 34, CREATED)
01-OCT-1996 (REL. 34, LAST SEQUENCE UPDATE)
15-JUL-1998 (REL. 36, LAST ANNOTATION UPDATE)
C-C CHEMOKINE RECEPTOR TYPE 5 (C-C CKR-5) (CC-CKR-5)
 MEDLINE;
SAMSON M.
 TRANSMEM
DOMAIN
 TRANSMEM
DOMAIN
 TRANSMEM
DOMAIN
TRANSMEM
 GCRDB; GCR_1367;
GCRDB; GCR_2432;
PROSITE; PS00237;
 SEQUENCE
 BIOCHEMISTRY
 SEQUENCE
 EUKARYOTA;
 DISULFID
 DOMAIN
 DOMAIN
 TRANSMEM
 DOMAIN
 G-PROTEIN
 (HIV-1 FUSION CO-RECEPTOR) (CHEMR13).
 TRANSMEM
 TRANSMEM
 DOMAIN
 DOMAIN
 197
 144
 316
 261
 202
 139
 84
 80
 24
 20
 SAPIENS (HUMAN)
 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV 350
 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH 315
 RMTIFCLVLPLLVMAICYTGIIKTLLRCPS-KKKYKAIRLIFVIMAVFFIFWTPYNVAIL
 ARTVTFGVVTSVITWVVAVFASLPGIIFTRSQKEGLHYT-CSSHFPYSQ-YQFWKNFQTL 196
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAIVHAVFALK 138
 LSSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH
 ARTVTFGVITSIVTWGLAVLAALPEFIFYETE-ELFEETLCSALYPEDTVYS-WRHFHTL
 LVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALR 143
 ch 53.8%;
l Similarity 54.6%;
l83; Conservative
 FROM N.A.
96241590.
, LABBE O., MOLLEREAU C.,
STRY 35:3362-3367(1996).
 FROM N.A
 PRIMATES
 COUPLED
 236
261
278
302
101
268
123
352
 103
103
103
103
125
142
1142
1199
 AA;
 D RECEPTOR;

50
50
68
68
89
102
1124
1124
1156
1198
218
235
217
301
352
178
268
 G_PROTEIN_RECEPTOR;
 CHORDATA;
 40539
 X
V
 W; vc. BB 1; Let Score 1486; DB 1; Let 7-ad. No. 2.71e-227; 7-ad. S7;
 TRANSMEMBRANE;
 POTENTIAL.
T -> S (IN
 CYTOPLASMIC (
 CYTOPLASMIC (PBY SIMILARITY.
 CYTOPLASMIC
6 (POTENTIA)
 2 (POTENTIAL).
EXTRACELLULAR (POTENTIAL)
 CYTOPLASMIC
2 (POTENTIA)
 EXTRACELLULAR (POTENTIAL)
 EXTRACELLULAR (POTENTIAL)
 EXTRACELLULAR (POTENTIAL).
 VERTEBRATA;
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL)
 (POTENTIAL).
 VASSART
 (IN REF. 1).
4684 CRC32;
 (POTENTIAL)
 (POTENTIAL).
 (POTENTIAL).
 (POTENTIAL).
 TETRAPODA;
 ດ
:
 GLYCOPROTEIN
 PARMENTIER
 Length 352;
 014698; 014699;
 Indels
 MAMMALIA;
 (CCR-5) (CCR5)
 X
 9;
 Gaps
 256
 260
 201
 9;
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PAXTON W.A.;

PAXTON W.A.;

AND THE 381:667-673(1996).

-!- FUNCTION: RECEPTOR FOR A C-C TYPE CHEMOKINE. BINDS TO MIP-1-ALPHA,

MIP-1-BETA AND KANTES AND SUBSEQUENTLY TRANSDUCES A SIGNAL BY

INCREASING THE INTRACELLULAR CALCIUM IONS LEVEL, MAY PLAY A ROLE
IN THE CONTROL OF GRANULOCYTIC LINEAGE PROLIFERATION OR
 UI MARZIO P., MARMON S., SUTTON R.E., HILL C.M. PEIPER S.C., SCHALL T.J., LITTMAN D.R., LANDAU NATURE 381:661-666(1996).
 MCCOMBIE W.R., WILSON R., CHEN E., GIBBS R., ZUO L., JOHNSON NHAN M., PARNELL L., DEDHIA N., ANSAII A., MARDIS E., SCHUTZ GNOJ L., LA BASTIDE M., KAPIARN N., GRECO T., TOUGHMAN J., MUZNY D., CHEN C.N., EYANS C., FITZGERALD M., SEE L.H., TANG PORCEL B.M., DRAGAN Y., GIACALONE J., PAE A., POWELL E., SOLINGKY K.A., DESILVA U., DIAZ -PEREZ S., ZHOU X., YU Y., WATANABE M., DOGGETT N., GARCIA D., SAGRIPANTI J.L.; SUBMITTED (MAY-1997) TO EMBL/GENBANK/DDBJ DATA BANKS.
 SEQUENCE;
 J. BIOL.
[3]
 MEDLINE;
RAPORT C.
 EMBL;
 EMBL;
EMBL;
EMBL;
 EMBL;
EMBL;
 EMBL;
 EMBL;
EMBL;
 MEDLINE; 96260017.

DENG H., LIU R., ELLMEIER W.,

DI MARZIO P., MARMON S., SUTT
 DIFFERENTIATION.

- I FUNCTION: ACTS AS AS CO-RECEPTOR WITH CD4 FOR PRIMARY NOISYNCYTIUM-INDUCING STRAINS (NSI) (MACROPHAGE-TROPIC) OF I VIRUS. IT PROMOTES ENV-MEDIATED FUSION OF THE VIRUS.
- I SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN.
- I TISSUE SPECIFICITY: FOUND IN PROMYELOCYTIC CELLS.
- I SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECIEMBL; V91492; E199247; -.
EMBL; U54994; G1157946; -.
EMBL; U57840; G1502409; -.
EMBL; U57866; G2104520; -.
EMBL; U58326; G2347112; -.
 EMBL;
 HO D.D.;
AIDS RES. HUM. RETROVIRUSES 13:1357-1366(1997).
 SEQUENCE FROM N.A.
MEDLINE; 98001387.
KUHMANN S.E., PLATT E.J., KOZAK S.L.,
J. VIROL. 71:8642-8656(1997).
 MEDLINE; 96295970.
COMBADIERE C., AHU
J. LEUKOC. BIOL. 6
 SEQUENCE FROM N.A., AND MEDLINE; 98022612.
 DRAGIC T.,
 MEDLINE;
 CHARACTERIZATION OF ITS HIV-1 RECEPTOR
 CHARACTERIZATION OF
 ZHANG
 SEQUENCE
AF011500; G2305118;
AF011501; G2305120;
AF011502; G2305124;
AF011503; G2305124;
AF011505; G2305128;
AF011506; G2305130;
AF011507; G2305132;
AF011508; G2305134;
AF011509; G2305134;
AF011510; G2305134;
AF011510; G2305134;
AF011511; G2305144;
AF011512; G2305144;
AF011513; G2305144;
AF011513; G2305144;
AF011513; G2305144;
 ۲.,
 96291862.
 W.R., W
 96260018
 FROM
 CHEM.
 CARRUTHERS C.D.,
 GOSLING
 N.A.
 AHUJA S.K., TIFFANY
L. 60:147-152(1996).
 SLING J., SCHWEICHART V.L., 271:17161-17166(1996).
 ITS HIV-1 RECEPTOR
 POLYMORPHISMS
 HE T.,
 MADDON P.J., KOUP R.A.,
 HUANG
 H.L.,
 KABAT
 G-PROTEIN COUPLED RECEPTORS
 FUNCTION
 UNUTMAZ D.,
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 MURPHY
 GRAY P.W.,
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AF011515; AF011517; AF011518;

AF011519; AF011520;

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Query Match
 EMBL; AF011531; G230
EMBL; AF011532; G230
EMBL; AF011535; G230
EMBL; AF011537; G230
EMBL; AF011537; G230
GCRDB; GCR_1923;
GCRDB; GCR_1927;
GCRDB; GCR_2116;
GCRDB; GCR_2454;
 DOMAIN
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 AF011526;
AF011527;
AF011528;
AF011529;
AF011530;
AF011531;
AF011532;
 AF011524;
AF011525;
 PS00237; G_PROTEIN_RECEPTOR; 1.
N COUPLED RECEPTOR; TRANSMEMBRANE; GLYCOPROTEIN;
 G2305148
G2305154
G2305156
G2305156
G2305162
G2305162
G2305164
G2305164
G2305166
G2305170
G2305180
 178
268
268
310
31
34
62
68
95
158
176
 53.8%;
 40524
 WW;
 Score 1484;
 7 (POTENTIAL).
CYTOPLASMIC (PO
BY SIMILARITY.
 EXTRACELLULAR (POTENTIAL)
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
 EXTRACELLULAR (POTENTIAL)
7 (POTENTIAL)
 CYTOPLASMIC
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V INCCR5-72A).
V TZCCR5-179).
 UGCCR5-145B).
ZWCCR5-7).
MWCCR5-107).
INCCR5-467).
 INCCR5-71A).
INCCR5-72A).
IZCCR5-179).
 MWCCR5-1567).
TZCCR5-181A AN
UGCCR5-145C).
 UGCCR5-145A).

KECCR5-116).

INCCR5-45C).

UGCCR5-145A).
 THCCR5-5).
MWCCR5-1567).
 THCCR5-5)
 ZWCCR5-7)
 (POTENTIAL).
 DB 1;
 (POTENTIAL).
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Length 352;
 AND MWCCR5-107).
 POLYMORPHISM
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 Best Local Similarity 54.3%; Matches 182; Conservative
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 CQKINVKQIAARLLPPLYSLVFIFGFVGNMLVILILINCKRLKSMTDIYLLNLAISDLFF
 LNTFQEF-FGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFVGEKFRNYLLVFFQKH
|:::| : | | |:| | |:| | | || ::|
LSSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH
 CEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLF
LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 IAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISV 350
 Pred. No. 6.07e-227;
87; Mismatches 57;
 Indels
 9;
 Gaps
 319
 315
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ch\_pp protein - protein database search, using Smith-Waterman algorithm

Tabular output not generated. Run on: Tue Dec 8 13:18:11 1998; MasPar time 14.72 Seconds 823.402 Million cell updates/sec

Description: Perfect Score: Sequence: Scoring table: PAM 150 Gap 11 >US-08-963-656-4 (1-355) from US08963656.pep 2760 1 MTTSLDTVETFGTTSYYDDV.....LERTSSVSPSTAEPELSIVF 355

Title:

Searched: 107076 seqs, 34141958 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database:

Statistics: pir56
1:pir1 2:pir2 3:pir3 4:pir4 Mean 48.858; Variance 137.386; scale 0.356

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

|        |       | de   |        |     | SUMMARIES |                       |           |
|--------|-------|------|--------|-----|-----------|-----------------------|-----------|
| Result | Score | ery  | Length | BB  | ID        | Description           | Pred. No. |
| 1      | 2758  |      | 355    | 2 : | G02436    | C-C chemokine recepto | 0.00e+00  |
| 2      | 2741  | 99.3 | 355    | 2   | 72        | mokine (C-C           |           |
| ω      | 1880  | •    | 359    | N   | 149341    | ha rece               | 1.45e-253 |
| 4      | 1834  |      | 355    | N   | A45177    |                       | .23e-     |
| υ      | 1723  |      | 355    | 2   | I49339    | e infla               | 9e-       |
| o      | 1485  |      | 352    | N   | G02653    | 5                     | .13e-     |
| 7      | 1484  | 53.8 | 352    | N   | A43113    |                       | .41e-     |
| 80     | 1440  | •    | 383    | 2   | S55594    | -couple               | .69e-     |
| 9      | 1439  | •    | 356    | N   | I49340    | MIP-1 alpha receptor  | . 38      |
| 10     | 1421  | •    | 360    | N   | JC2443    | ( 2                   | .17e-     |
| 11     | 1335  | •    | 374    | N   | I38450    | ු                     | .06e-     |
| 12     | 1243  |      | 360    | N   | A57160    | Ċ                     | .06e-     |
| 13     | 1199  |      | 360    | N   | JC4587    | Ċ                     | .41e-     |
| 14     | 1067  |      | 355    | ν   | JC5067    | uple                  | .11e-     |
| 15     | 1059  |      | 354    | N   | I58186    | -pr                   | 7.78e-131 |
| 16     | 1011  | 36.6 | 355    | N   | JC4304    | tein-cou              |           |
| 17     | 850   |      | 369    | N   | JC5068    | G protein-coupled rec | .09e-     |
| 18     | 825   |      | 378    | N   | B55735    | lymphocyte-specific G | . 83e-    |
| 19     | 796   |      | 378    | N   | A45680    | G protein-coupled pep | .07e-     |
| 20     | 776   |      | 378    | N   | A55735    | G protein-coupled rec | .49e-     |
| 21     | 739   |      | 360    | N   | A53611    | The second            | ø         |
| 22     | 726   |      | 350    | N   | A39445    |                       | .43e-     |
| 23     | 719   |      | 352    | 2   | A45747    | ŗį                    | 4.56e-81  |
|        |       |      |        |     |           |                       |           |

RESULT

| 630    | 632 22.  | 637                  | 639                   | 639 23.               | 645                   | 647 23.               | 649 23.               | 650                   | 650 23.              | 652 23.               | 34 652 23.6           | 654                   | 655 23.               | 657                   | 658 23.  | 668 24.               | 670 24.               | 691                   | 699 25.               | 710 25.               | 716 25.               |
|--------|----------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 362    | 359      | 359                  | 372                   | 327                   | 359                   | 359                   | 374                   | 359                   | 359                  | 359                   | 356                   | 359                   | 359                   | 359                   | 350      | 359                   | 374                   | 353                   | 358                   | 352                   | 355                   |
| N      | N        | N                    | Ν                     | Ν                     | N                     | Ν                     | N                     | N                     |                      |                       | N                     | N                     | N                     | N                     | N        | ν                     | N                     | N                     | N                     | 2                     | N                     |
| JN0694 | JC1193   | 151372               | S26667                | S56162                | S15403                | A48857                | S32785                | A48921                | JH0621               | JC1104                | S42096                | JQ1516                | JC2134                | S44425                | JN0621   | A42656                | S42628                | S28787                | A53752                | G00048                | JQ1231                |
| II     |          | angiotensin receptor | G protein-coupled rec | MDCR15 protein - huma | angiotensin II recept | AT1 angiotensin II re | G protein-coupled rec | interleukin-8 recepto | angiotensin receptor | angiotensin II recept | interleukin-8 recepto | angiotensin II recept | angiotensin II recept | angiotensin II recept | 1quo     | angiotensin II recept | G-protein coupled rec | neuropeptide Y/peptid | interleukin-8 recepto | fusin (LESTRA) - crab | interleukin-8 recepto |
| σ      | 1.52e-68 | 2.92e-69             | 1.51e-69              | 1.51e-69              | 2.08e-70              | 1.08e-70              | .55e-                 |                       |                      | 2.06e-71              | 2.06e-71              | 1.06e-71              |                       | .94e-7                | 2.83e-72 | .03e-                 |                       | 5.03e-77              |                       | 9.11e-80              | 1.24e-80              |

### ALIGNMENTS

| Db 301 YAFVGERFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF 355                                                                                      | δλ<br>ης |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 241 IFVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERSKHLDLYMLVTEVIAYSHCCMNPVI                                                                                        | 8        |
| Db 241 IFVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERTKHLDLVMLVTEVIAYSHCCMNDVI 300                                                                                 | 닭        |
| Qy 181 TLCSALYPEDTVYSWRHFHTLRWTIFCLVLPLLVWAICYTGIIKTLLRCPSKKKYKAIRL 240                                                                                 | Qy       |
| Db 181 TLCSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRL 240                                                                                 | Db       |
| Qy 121 IFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEE 180                                                                                 | γo       |
| Db 121 IFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEE 180                                                                                 | 맜        |
| Qy 61 KYRRLRIMINIYLLNLAISDLLELVTLPEWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSE 120                                                                                  | γo       |
| Db 61 KYRRLRIMINIYLLNLAISDLLFLYTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSE 120                                                                                  | 맜        |
| Qy 1 MTTSLDTVETFGTTSYYDDVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILI 60                                                                                    | Qγ       |
| Db 1 MTTSLDTVETFGTTSYYDDVGLLCEKADTRALMAQFVPPPLYSLVFTVGLLGNVVVVMILI 60                                                                                   | 뭐        |
| Best Local Similarity 99.7%; Pred. No. 0.00e+00; Matches 354; Conservative 1; Mismatches 0; Indels 0; Gaps 0;                                           |          |
|                                                                                                                                                         |          |
| ##residues 1-355 ##LabeL PON<br>##cross-references EMBL:U49727; NID:g1477560; PID:g1477561<br>SUMMARY #length 355 #molecular-weight 41057 #checksum 477 | SU       |
| _type                                                                                                                                                   |          |
| G02436                                                                                                                                                  |          |
| ion submitt                                                                                                                                             |          |
| #authors Ponath D D                                                                                                                                     | Ä        |
| s GC                                                                                                                                                    | AC<br>AC |
| DATE 21-Dec-1990 #sequence_revision 06-Jun-1997 #text_change 06-Jun-1997                                                                                | ď.       |
| ISM #formal_name Homo sapiens                                                                                                                           | e<br>G   |
| TITLE C-C chemokine receptor 3 - human                                                                                                                  | 별탕       |
| T 1                                                                                                                                                     | Į R      |

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288-305
 #journal
#title
 108-129
147-171
205-223
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 YURE
36-60
71-91
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 #accession
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ADS G protein-coupled receptor; gly
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##residnee
 301
 241
 181
 181
 121
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 Watch 99.3%;
Local Similarity 99.4%;
 61
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 TLCSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRL
 IFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEE 180
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 YAFVGERFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF 355
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 KYRRLRIMTNIYLLNLAISDLLFLVTLFFWIHYVRGHNWVFGHGMCNLLSGFYHTGLYSE 120
 MTTSLDTVETFGTTSYYDDVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILI 60
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 MTTSLDTVETFGTTSYYDDVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILI 60
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 IFFILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEE
 29-Aug-1997
A57237
28-Feb-1997
149341
149339
 Combadiere, C.; Ahuja, S.K.; Murphy, P.M.
J. Biol. Chem. (1995) 270:16491-16494
Cloning and functional expression of a human eosinophil
 A57237 #type
chemokine (C-C) 1
C-C CKR-3
 I49341 #type complete
MIP-1 alpha receptor like-2 - mouse
 GDB:CMKBR3
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 #formal_name Mus musculus #common_name house mouse
02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change
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 chemokine receptor.
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kinase II) #status predicted
jth 355 #molecular-weight 41072 #checksum 897
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 #domain transmembrane #status predicted
 domain transmembrane #status predicted domain transmembrane #status predicted
 #domain transmembrane #status predicted
 #domain transmembrane #status predicted
 domain
 #sequence_revision
 transmembrane
 Pred.
 receptor
 Score 2741; DB 2;
Pred. No. 0.00e+00;
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 Mismatches
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 #status predicted
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 08-Dec-1995
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 Length 355;
 Indels
 not shown
 #text_change
 #label
#label
#label
#label
#label
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#label
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 355
 Gaps
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TM5/
TM6/
 TM1/
TM2/
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 #journal
#title
 #authors Gao, J.

J. Exp. Med. (1993) 177:1421-1427

#title Structure and functional expression of the human macrophage

#title inflammatory 1 alpha (MIP-lalpha)/RANTES receptor.

#cross-references_MUID:93240122
 #accession
 #cross-references MUID:93161416
 #journal
 #accession
 #authors
 #authors
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 191
 127
 131
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 67
 71
 Match 68.1%;
Local Similarity 68.8%;
les 240; Conservative
 12 VESFETTPYEYEWAPP-CEKVRIKELGSWLLPPLYSLVFIIGLLGNMMVVLILIKYRKLQ
 œ
 RFRKHLRLFFHRNVQFTWENIFQFLPGEENGRTSSVSPSTGEQEISVVF 359
 VFFIFWTPYNLVLLFSAFHSTFLETSCEQSKHLDLAMQVTEVIAYTHCCVNPVIYAFVGE
 LTIDRYLAIVHAVFALRARTVTFATITSIITWGLAGLAALPEFIFHESQDSFGEFSCSPR
 LTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEETLCSAL
 RFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF
 YPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRLIFVIMA
 VFF IFWTPYNVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGE
 A45177 #type complete chemokine (C-C) receptor 1 - human C-C CKR-1; macrophage inflammatory protein-1-alpha receptor
 Gao, J.L.; Murphy, P.M.
J. Biol. Chem. (1995) 270:17494-17501
Cloning and differential tissue-specific expression of three
mouse beta chemokine receptor-like genes, including the
 A45177
Neote, K.; DiGregorio, D.;
Cell (1993) 72:415-425
 #formal_name Homo sapiens #common_name man 30-Sep-1993 #sequence_revision 30-Sep-1993 10-Sep-1997
 I55671
 I5567
 A45177
 Molecular cloning, functional characteristics of a C-C ch
 A45177; I55671
 1-355 ##label NEO
 sequence extracted
 preliminary; translated
 nucleic acid sequence
 1-359 ##label RES
 Score 1880; DB 2;
Pred. No. 1.45e-253;
49; Mismatches 58;
 from NCBI backbone (NCBIP:124876)
 not
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 chemokine
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 expression,
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 GB/EMBL/DDBJ
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 246
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 130
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 #map_position KEYWORDS
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 108-129
147-171
205-223
240-264
 #authors Gao, J.L.; Murphy, P.M.

J. Biol. Chem. (1959) 270:17494-17501

Cloning and differential tissue-specific expression of the mouse beta chemokine receptor-like genes, including the gene for a functional macrophage inflammatory protein-lapha receptor.

alpha receptor.

eccoss-references MUID:95340546
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 4-273,106-183
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pp_position 3p21-3p21
abs disulfide bond; G
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 299
 299
 239
 239
 179
 179
 119
 119
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Y #length 355 #molecular-weight 40869 #checks
 Local Similarity 63.0%;
 59
 59
 1 METP-NTTEDYDTTTEFDYGDATP-CQKVNERAFGAQLLPPLYSLVFVIGLVGNILVVLV 58
 THHTCSLHFPHESLREWKLFQALKLNLFGLYLPLLYMIICYTGIIKILLRRPNEKKSKAV 238
 SEIFFIILLTIDRYLAIVHAVEALRARTVTFGVITSIIIWALAILASMPGLYFSKTQWEF 178
 σ
 LVQYKRLKNMTSIYLLNLAISDLLFLFTLPFWIDYKLKDDWVFGDAMCKILSGFYYTGLY 118
 MTTSLDTVETFGTTS-Y-YDDVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMI 58
 EETLCSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAI
 SEIFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELF
 LIKYRRLRIMTNIYLLNLAISDLLFLVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLY 118
 225;
 149339 #type complete
macrophage inflammatory protein-1 alpha receptor - mouse
#formal_name Mus musculus #common_name house mouse
02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change
 #length
 GDB:CMKBR1;
 I49339
 Conservative
 02-Jul-1996
 phosphoprotein;
 #disulfide_bonds #status predicted\
#binding_site phosphate (Ser) (cova
kinase II) #status predicted
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#domain transmembrane #status predicted #label TM3\
#domain transmembrane #status predicted #label TM4\
#domain transmembrane #status predicted #label TM5\
#domain transmembrane #status predicted #label TM6\
#domain transmembrane #status predicted #label TM7\
#domain transmembrane #status predicted #label TM7\
 binding_site carbohydrate (Asn) (covalent) #status
 predicted
 GDB:138446; OMIM:601159
 CMKR-1
 #molecular-weight 41172 #checksum
 transmembrane #status predicted transmembrane #status predicted
 Score 1834; DB 2;
Pred. No. 1.23e-246;
67; Mismatches 61;
 transmembrane
 protein-coupled
 NID: g292416;
 from GB/EMBL/DDBJ
 protein
 PID:g292417
 61;
 receptor;
 (covalent) (by casein
 Length
 Indels
 #checksum
 glycoprotein;
 #label
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 Query Match 62.4%;
Best Local Similarity 58.4%;
 Query Match
Best Local :
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Y #length 352 #molecular-weight 405
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 261
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 144
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 300
 300
 240
 240
 180
 180
 120
 120
 ##status
 y Match 53.8%;
Local Similarity 54.3%;
 60
 60
 84
 80
 24
 20
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 LIFAITLLFFLLWTPYNLSVFVSAFQDVLFTNQCEQSKHLDLAMQVTEVIAYTHCCVNPI 299
 MEIS-DETEAYPTTTEFDYGDSTPCQKTAVRAFGAGLLPPLYSLVFIIGVVGNVLVILVL
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 MQHRRLQSMTSIYLFNLAVSDLVFLFTLPFWIDYKLKDDWIFGDAMCKLLSGFYYLGLYS 119
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 RMTIFCLVLPLLVMAICYTGIIKTLLRCPS-KKKYKAIRLIFVIMAVFFIFWTPYNVAIL 260
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 208;
 G02653
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CC Chemokine receptor 5 - human
CT Chemokine receptor 5 - human
#formal_name Homo sapiens #common_name
21-Dec-1990 #sequence_revision 06-Jun-1
 submitted to
 Combadiere,
 H0154
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 Conservative
 06-Jun-1997
 preliminary; translated
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 #molecular-weight 40566
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Pred. No. 6.19e-230;
82; Mismatches 64:
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Pred. No. 3.13e-194;
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 06-Jun-1997
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320

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 Matches
 Query Match
 #journal #title
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 ##residues 1-352 ##label SAM 1-352 ##cross-references GB:X91492; NID:g1262810; PID:e199247; PID:g1262811 ##cross-references GB:X91492; NID:g1262810; PID:e199247; PID:g1262811
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G protein-coupled receptor

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##residnee
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 144
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 261
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 KIVILGLVLPLLVMVICYSGILKTLLRCRNEKKRHRAVRLIFTIMIVYFLFWAPYNIVLL 256
 ARTVIEGVVTSVITWVVAVFASLPGIIFIRSQKEGLHYT-CSSHFPYSQ-YQFWKNFQTL 196
 LTTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALR
 CEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKYRRLRIMINIYLLNLAISDLLF
 CQKINVKQIAARLLPPLYSLVFIFGFVGNMLVILILINCKRLKSMTDIYLLNLAISDLFF 79
 LLMHLGRYIPFLPSEKLERTSSV-SPSTAEPELSI 353
 œ
 RMTIFCLVLPLLVMAICYTGIIKTLLRCPS-KKKYKAIRLIFVIMAVFFIFWTPYNVAIL
 ARTVTFGVITSIVTWGLAVLAALPEFIFYETE-ELFEETLCSALYPEDTVYS-WRHFHTL
 LLTVPFWAHYAAAQ-WDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAVVHAVFALK 138
 LSSYQSILFG-NDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH
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Similarity 54.3%;
 J. Mol. Biol. (1995) 249:520-528
The DNA sequence of equine Form S55594
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 $55594 #type complete
G protein-coupled receptor E1 - equine herpesvirus #formal_name equine herpesvirus 2
10-Apr-1996 #sequence_revision 19-Apr-1996 #text_cl
 A43113
A43113
 #formal_name Homo sapiens #common_name man
12-Jul-1996 #sequence_revision 12-Jul-1996
10-Sep-1997
 A43113
 Parmentier, M.
Biochemistry (1996) 35:3362-3367
Molecular cloning and functional
 Samson, M.; Labbe,
 Telford, E.A.R.; Watson, M.S.; Aird, H.C.;
 Conservative
 CC-chemokine receptor gene
 preliminary
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 equine herpesvirus
 Mismatches
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 #authors Gao, J.L.; Murphy, P.M.

#journal J. Biol. Chem. (195) 270:17494-17501

#title Cloning and differential tissue-specific expression of three mouse beta chemokine receptor-like genes, including the gene for a functional macrophage inflammatory protein-1 alpha receptor.

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02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change
28-Feb-1997
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260 LLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRH 319

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 #authors Charo, I.F.: Myers, S.J.; Herman, A.; Franci, C.; Connolly, A.J.; Coughlin, S.R.
#journal Proc. Natl. Acad. Sci. U.S.A. (1994) 91:2752-2756

#title Molecular cloning and functional expression of two monocyte chemoattractant protein 1 receptors reveals alternate splicing of the carboxyl-terminal tails.
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21-Feb-1995 #sequence_revision 05-Apr-1995 #text_change
10-Sep-1997
 Yamagami, S.; Tokuda, Y.; Ishii, K.; Tanaka, H.; Endo, N. Biochem. Biophys. Res. Commun. (1994) 202:1156-1162 cDNA cloning and functional expression of a human monocyte chemoattractant protein 1 receptor.
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 3p21-3p21 alternative splicing; G protein-coupled
 Charo, I.F.; Myers, S.J.; Herman, A.; Franci, C.; Connol A.J.; Coughlin, S.R.
Proc. Natl. Acad. Sci. U.S.A. (1994) 91:2752-2756
Molecular cloning and functional expression of two monoc chemoattractant protein 1 receptors reveals alternate splicing of the carboxyl-terminal tails.
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16-Feb-1996 #sequence_revision 16-Feb-1996 #text_change
29-Aug-1997
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 Indels
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TM2//
TM3//
TM4//
TM5//
TM6//
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 310
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 A57160
chemokine
C-C CKR-4
 Power, C.A.; Meyer, A.; Nemeth, K.; Bacon, K.B.; H
A.J.; Proudfoot, A.3.I.; Wells, T.N.C.
J. Biol. Chem. (1995) 270:19495-19500
Molecular cloning and functional expression of a n
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kinase C) #status predicted\
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 242
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ALTERNATE\_NAMES

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G protein-coupled receptor CKR-L1 - human
chemokine receptor-like protein TER1; GPR
#formal\_name Homo sapiens #common\_name ma

TER1; GPR-CY6

ORGANISM

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Biochem. Biophys. Res. Commun. (1996) 218:337-343
Molecular cloning of murine CC CKR-4 and high affinit
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 Napolitano, M.; Zingoni, A.; Bernardini, G.; Spinetti, G.; Rocchi, M.; Santoni, A.
 31-Jan-1997 #sequence_revision 31-Jan-1997
10-Sep-1997
JC5067; G02776; G02387
JC5067
 Biochem. Biophys. Res. Commun. (1996) 227:846-853 Molecular cloning and RNA expression of two new hochemokine receptor-like genes.
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 #authors Harrison, J.K.; Barber, C.M.; Lynch, K.R.
#journal Neurosci. Lett. (1994) 169:85-89
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